508 WEST 24TH STREET

MANHATTAN, NEW YORK

Remedial Action Report

NYC VCP Number: 12CBCP044M

Langan Project No. 100242701

Prepared for:

Highline West 24th Street, LLC

56 West 22nd Street

Manhattan, New York 10010

Prepared by:

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OCTOBER 2014

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LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
ORC	Oxygen Release Compound
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

CERTIFICATION

I, Mark Seel, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the 508 West 24th Street Site 12CBCP044M.

I, Steven Ciambruschini, am a qualified Environmental Professional. I had primary direct responsibility for implementation remedial program for the 508 West 24th Street Site 12CBCP044M.

I certify that the OER-approved Remedial Action Work Plan dated March 2, 2012 and Stipulations in a letter dated March 19, 2012 were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Mark Seel
Name

074241-1
PE License Number

Signature

8/5/14
Date

PE Stamp

Steven Ciambruschini
QEP Name

QEP Signature

Date

EXECUTIVE SUMMARY

Site Location and Prior Usage

The Site, located at 508 West 24th Street in the Chelsea section in Manhattan, New York, identified as Block 695 Lot 44 on the New York City Tax Map. Figure 1 shows the Site location. The Site covers ±7,406-square feet and is bounded to the north by West 24th Street with mixed use commercial/residential buildings across the street, to the east by the Highline Park with underlying vacant land, to the south by mixed use commercial/residential buildings, and to the west by a commercial building. A map of the site boundary is shown in Figure 2. The site was most recently occupied by a vacant building.

Summary of Redevelopment Plan

The new development consists of a 130-foot tall 10-story mixed use commercial/residential building with one cellar level having a gross footprint of about 5,427 square-feet (sf). A gymnasium, tenant storage, building superintendent's office, and mechanical space occupy the cellar. The first floor covers the entire 7,406 sf footprint of the property. The first floor is occupied by about 4,865 sf of commercial space and 2,541 square feet of residential lobby space. The second through tenth floors are occupied by 15 residential apartments having a total gross area of about 39,491 sf.

Approximately 73% of the Site is occupied by the cellar. Excavation within the cellar extended to 19 feet below original Site grade (also referred to as "below ground surface" or "b.g.s."). A setback area along the eastern, western and southern property boundaries comprises the remaining 27% of the Site. No soils were removed from this setback area. These soils are impacted above the Track 1 Soil Cleanup Objectives and are effectively capped by the first floor building slab and foundation elements, which are built out to the extents of the site. Approximately 8,806 tons of soil/fill were removed from the site to construct the building.

Groundwater was encountered between depths of approximately 7.5 to 10-feet b.g.s. during the Remedial Investigation (RI). Two dewatering wells were installed at the site by Moretrench American Corporation of Yonkers, New York prior to the commencement of excavation activity by East End Concrete Corporation of Medford, New York. All

collected water was disposed to the New York City sewer system in accordance with NYCDEP permit number 636192.

The current Site zoning designation is commercial district C6-2A, which is a contextual commercial district outside a central business district. Specifically, the C6 zoning indicates that the Site is zoned for corporate headquarters, large hotels, entertainment facilities, retail stores and some residential development in mixed-use buildings. The intended use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Environmental Findings

Based on a review of Sanborn maps and other historic documentation conducted during the Phase I Environmental Site Assessment (ESA), historical use of the site was for manufacturing and commercial purposes. The 1890 and 1899 Sanborn maps identify the property as a being operated as a millwork. The 1911 Sanborn map identifies the site as a manufacturing building. The site is identified as a fur dyeing facility on the 1930 Sanborn Map and as a furniture warehouse and trailer service station on the 1950 Sanborn Map. The 1976 Sanborn Map shows the subject property operating as lumber storage and a restaurant range repair facility. Use of the property as lumber storage and restaurant range repair was consistent through the 2005 Sanborn Map. The site was operated as a mobile television production facility from 2000 to 2012.

Based on information maintained online by the New York City Department of Finance (NYCDOF) the following summary of past ownership information, as identified in Langan's August 2011 Phase I ESA, is provided:

The current owner is identified as Highline West 24th Street, LLC which purchased the site in December 2011. The subject property was previously owned by Mutual Lumber Company, Inc from January 1984 until November 1995, when it was sold to Perfect Transport, Inc. which owned the property until 1999 when The Metro Group International purchased the property

The following is a list of the Areas of Environmental Concern (AOCs) investigated as part of the Remedial Investigation of the site:

1. Surrounding Sites – Potential onsite migration of offsite contaminants; and,

2. Onsite Historic Fill.

Summary of the Work Performed under the Remedial Investigation

The following scope of work was completed as part of the 2011 Remedial Investigation of the site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed six soil borings across the entire project Site, and collected 18 soil samples for chemical analysis from the soil borings to evaluate soil quality;

3. Installed three groundwater monitoring wells throughout the Site to estimate groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality;

4. Installed three soil vapor probes throughout the Site and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 6 to 7 feet.

2. Depth to groundwater ranges from 7.5 to 10 feet at the Site.

3. Groundwater flow is generally from east to west beneath the Site.

4. Depth to bedrock is between approximately 39 to 58 feet at the Site.

5. The stratigraphy of the site, from the surface down, consists of 12.5 – 14.5 feet of historic fill underlain by 3 to 5.5 feet of former river bottom deposits underlain by 19 to 38 feet of sand and silt.

6. Soil samples in the RI showed no volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs) above Track 1 Soil Cleanup Objectives (SCOs). A variety of VOC's, including mostly benzene, toluene, ethylbenzene, and xylenes (collective referred to as BTEX) and associated hydrocarbons were detected at trace and low concentrations and mostly at estimated concentrations. Very low levels of SVOCs were also identified in soils, mainly polycyclic aromatic hydrocarbon (PAH) compounds and mostly in shallow soil samples.

Pesticides and PCBs were not detected in soil samples onsite. Four metals were identified in soils onsite above Track 1 SCOs but below Track 2 Restricted Residential SCOs, including copper (2 samples), mercury (one sample), nickel (2 samples), and zinc (one sample). Lead slightly to marginally exceeded Track 2 Restricted Residential SCOs in two samples (574 mg/kg maximum) while no other sample exceeded Track 1 SCOs. Overall, soil sample findings did not reveal contamination associated with historic site use. The results were consistent with observations of historical fill in boring samples.

7. Groundwater samples in the RI showed only one VOC (isopropyl benzene at maximum of 5.8 ug/l in an upgradient well, and 5.0 ug/l downgradient) slightly in excess of Part 703.5 Class GA groundwater quality standard (GQS) of 5 ug/l. Only one SVOC (fluorene at 5.0 ug/l) was identified at the GQS of 5/ug/l. Two of these exceedences of GQS occurred in the upgradient well in the northeast corner of the site. No PCBs or pesticides were identified in groundwater samples. Only manganese and sodium were identified above GQS in dissolved samples. These results were high and consistent in all wells and suggest region wide influence of brackish water in the shallow aquifer. Overall, groundwater findings did not indicate an onsite source of contamination. However, a low level of a VOC in the upgradient well suggests a possible offsite source of petroleum compounds to the east of the property. An open petroleum spill is recorded at a gas station in this area. Results also indicate a regional saline influence in groundwater.

8. Soil vapor samples in the RI showed a variety of VOCs detected at relatively low concentrations throughout the property. PCE ranged from 5.8 to 8.8 ug/m^3 in three samples and well below the NYS DOH monitor level of 100 ug/m^3. TCE was detected at 2.2 ug/m^3 in one of three samples and below the monitor level of 5 ug/m^3. Other VOCs that were detected were mainly BTEX and associated hydrocarbons that were found at relatively low concentrations (below 100 ug/m^3) throughout the site. As previously noted, CVOCs including tetrachloroethene (PCE) and trichloroethene (TCE) were not detected in either soil or groundwater and past uses of the site do not indicate that CVOCs were historically used at the site. Upgradient groundwater data suggests that there may be an offsite source of BTEX to the east of the property.

Summary of the Remedial Action

The completed remedial action achieves the remedial objectives established in the RAP.

A Pre-Application Meeting was held on September 19, 2011. A Remedial Investigation (RI) was performed in December 2011 and a RI Report dated March 2012 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated March 2012 was prepared and released with a Fact Sheet on March 7, 2012 for a 30-day public comment period. The RAWP and Stipulation List dated March 19, 2012 was approved by the New York City Office of Environmental Remediation (OER) on July 5, 2012. A Pre-Construction Meeting was held on August 22, 2012. A Fact Sheet providing notice of the start of the remedial action was issued in July 2012 and the remedial action was begun in August 2012 and completed in May 2012.

The remedial action consisted of:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.
2. Established Track 2 Soil Cleanup Objectives (SCO's).
3. Mobilized on site in August 2012 and established Site security, equipment mobilization, utility mark outs and marking & staking excavation areas.
4. Soil/fill was excavated to a depth of approximately 19-feet b.g.s. Unrelated to the remedial action, sump pit and elevator pit area excavations ranged from about 20- to 26-feet b.g.s. Because of wetter than anticipated conditions the total weight of material removed was higher than originally estimated. A total of 8,806 tons of soil/fill was excavated and removed from the property. Soil/fill was disposed at the following facilities:
    a. 7,083 tons (contaminated non-hazardous soil/fill) soil/fill to Lincoln Park West Landfill Closure/Redevelopment Project in Lincoln Park, New Jersey.
    b. 1,723 tons (contaminated non-hazardous soil/fill) to Fullerton Slag Bank Facility (Former Atlas Cement Quarry) in Allentown, Pennsylvania.
5. Collected and analyzed end-point samples. Achieved Track 2 SCOs over 100% of the site.
6. Removed two underground storage tanks and remediated petroleum contaminated soil/fill in compliance with applicable laws and regulations.

7. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
8. All excavated soil/fill material was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a photoionization detector (PID).
9. Sampled and analyzed excavated media as required by disposal facilities. Appropriately segregated excavated media onsite prior to disposal.
10. Transported and disposed all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP.
11. Constructed an engineered Composite Cover System consisting of the first floor and basement slab and foundation elements to prevent human exposure to residual soil/fill remaining under the Site in the foundation setback areas on the western, southern, and eastern boundaries.
12. Installed a Vapor Barrier System that consisted of 46 mil Grace Preprufe 300R, the 32 mil Preprufe 160R, and Bituthene 4000 (59-mil composite) below grade system foundation damp-proofing material in conjunction with sealing of joints with Preprufe LT tape and Bituthene EdgeGuard tape. For sub-slab installation, the Contractor rolled out sheets of the horizontal waterproofing membrane (Preprufe 300R) over the crushed stone layer. All seams in the Preprufe 300R membrane and any connections to the vertical waterproofing membranes (Bituthene 3000 or Preprufe 160R) were sealed with Preprufe Tape. The Contractor sealed all connections with the top of concrete footings and concrete walls using Bituthene and Preprufe Tape. After the Preprufe 300R membrane was placed and all seams and connections were properly sealed, the Contractor placed reinforcing steel for the slab-on-grade and poured concrete for the slab-on-grade directly on top of the Preprufe 300R membrane. The contractor for construction of the Vapor Barrier System was Crown Waterproofing Inc. of Mount Vernon, New York.
13. Imported 1,344 tons of clean material for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
14. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
15. Performed all activities required for the Remedial Action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.

16. Residual soil is present beneath the cover layer and will be subject to Site Management under this Remedial Action.
17. Submitted a Sustainability Report.
18. Submitted a RAR that describes the Remedial Action, certifies that the remedial requirements defined in the Remedial Action Work Plan have been achieved; defines the Site boundaries; describes all Engineering and Institutional Controls applicable to the Site; and describes any changes from the RAWP.
19. Submitted a Site Management Plan (SMP) for long-term management of residual soil, including plans for operation, maintenance, inspection and certification of the performance of Engineering Controls and Institutional Controls. Inspections will be performed annually by building superintendent staff. Inspection by QEP and Certification reports will be performed in 2018 and every ten years thereafter and submitted by July 30, 2019 (for the reporting period calendar years 2015-2018), and by July 30 every tenth year thereafter (for the reporting period consisting of the ten prior calendar years). Inspection and Certification Reports will cover all calendar years since the prior reporting period.
20. The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Engineering Controls and Institutional Controls will be managed in compliance with the SMP. Institutional Controls will include prohibition of the following: (1) prohibition of vegetable gardening and farming in residual soil; (2) prohibition of the use of groundwater beneath the site without treatment rendering it safe for the intended use; (3) prohibition of disturbance of residual soil material unless it is conducted in accordance with the SMP; and (4) prohibition of higher levels of land usage than the restricted residential uses addressed by this remedial action without prior notification and approval by OER.

REMEDIAL ACTION REPORT

1.0 SITE BACKGROUND

Highline West 24th Street, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 508 West 24th Street in the Chelsea section of Manhattan, New York. The boundary of the property subject to this Remedial Action is shown in Figure 2 and include, in their entirety, Manhattan Block 695 and Lot(s) 44.

The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 SITE LOCATION AND PRIOR USAGE

The Site is located at 508 West 24th Street in the Chelsea section in Manhattan, New York and is identified as Block 695, and Lot 44 on the New York City Tax Map. Figure 1 shows the Site location. The Site covers ±7,406-square feet and is bounded to the north by West 24th Street with mixed use commercial/residential buildings across the street, to the east by the Highline Park with underlying vacant land, to the south by mixed use commercial/residential buildings, and to the west by a commercial building. A map of the site boundary is shown in Figure 2. The site was most recently occupied by a vacant building.

1.2 REDEVELOPMENT PLAN

The Site was redeveloped with a 130-foot tall 10-story mixed use commercial/residential building with one cellar level having a gross footprint of about 5,427 square-feet (sf). A gymnasium, tenant storage, building superintendent's office, and mechanical space occupy the cellar. The first floor covers the entire 7,406 sf footprint of the property. The first floor is occupied by about 4,865 sf of commercial space and 2,541 square feet of residential lobby space. The second through tenth floors are occupied by 15 residential apartments having a total gross area of about 39,491 sf.

Approximately 73% of the Site is occupied by the cellar. Excavation within the cellar extended to 19 feet below original Site grade (also referred to as "below ground surface" or "b.g.s."). A setback area along the eastern, western and southern property boundaries comprises the remaining 27% of the Site. No soils were removed from this setback area. These soils are impacted above the Track 1 Soil Cleanup Objectives and are effectively capped by the first floor building slab and foundation elements, which are built out to the extents of the site. Approximately 8,806 tons of soil/fill were removed from the site to construct the building.

Groundwater was encountered between depths of approximately 7.5 to 10-feet b.g.s. during the Remedial Investigation (RI). Two dewatering wells were installed at the site by Moretrench American Corporation of Yonkers, New York prior to the commencement of excavation activity by East End Concrete Corporation of Medford, New York. All collected water was disposed to the New York City sewer system in accordance with NYCDEP permit number 636192.

The current Site zoning designation is commercial district C6-2A, which is a contextual commercial district outside a central business district. Specifically, the C6 zoning indicates that the Site is zoned for corporate headquarters, large hotels, entertainment facilities, retail stores and some residential development in mixed-use buildings. The intended use is consistent with existing zoning for the property.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

Properties located adjacent to the subject property consist of commercial and manufacturing buildings. According to the information maintained on-line by the New York City Office of Environmental Remediation (NYCOER) Searchable Property Environmental E-Database (SPEED [https://gis.nyc.gov/moer/speed/]) there are no schools, hospitals, or daycare centers located within 250- or 500-foot radius of the site. The site is not located in an Economic and Incentive Zone. Tax Block 695 is zoned as commercial. According to the New York City Planning Commission Zoning Map 8B dated 29 December 2009, the subject property and the adjoining properties to the east and west are zoned C6-2A. The adjoining property to the south is zoned C6-3A. Properties across 24th Street to the north are zoned M1-5. The subject property and adjoining properties are also zoned as a Special Purpose District. Figure 3 shows the surrounding land usage.

1.4 REMEDIAL INVESTIGATION

A remedial investigation was performed and the results are documented in a companion document called "*Remedial Investigation Report, Proposed 508 West 24th Street Redevelopment*", dated February 2012 (RIR).

The following is a list of the AOCs investigated as part of the Remedial Investigation of the site:

1. Surrounding Sites – Potential onsite migration of offsite contaminants; and,
2. Onsite Historic Fill.

Summary of the Work Performed under the Remedial Investigation

Highline West 24th Street, L.L.C. performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected 18 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to estimate groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and,
4. Installed three soil vapor probes throughout the Site and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 6 to 7 feet.
2. Depth to groundwater ranges from 7.5 to 10 feet at the Site.
3. Groundwater flow is generally from east to west beneath the Site.
4. Depth to bedrock is between approximately 39 to 58 feet at the Site.

5. The stratigraphy of the site, from the surface down, consists of 12.5 – 14.5 feet of historic fill underlain by 3 to 5.5 feet of former river bottom deposits underlain by 19 to 38 feet of sand and silt.

6. Soil samples in the RI showed no VOCs or SVOCs above Track 1 SCOs. A variety of VOC's, including mostly BTEX and associated hydrocarbons were detected at trace and low concentrations and mostly at estimated concentrations. TCE and PCE and their decay products were not detected in soil onsite. Very low levels of SVOCs were also identified in soils, mainly PAH compounds and mostly in shallow soil samples. Pesticides and PCBs were not detected in soil samples onsite. Four metals were identified in soils onsite above Track 1 SCOs but below Track 2 Restricted Residential SCOs, including copper (2 samples), mercury (one sample), nickel (2 samples), and zinc (one sample). Lead slightly to marginally exceeded Track 2 Restricted Residential SCOs in two samples (574 mg/kg maximum) while no other sample exceeded Track 1 SCOs. Overall, soil sample findings were unremarkable and did not indicate any source of contamination onsite. The results were consistent with observations of historical fill in boring samples.

7. Groundwater samples in the RI showed only one VOC (isopropyl benzene at maximum of 5.8 ug/l in an upgradient well, and 5.0 ug/l downgradient) slightly in excess of Part 703.5 Class GA groundwater quality standard (GQS) of 5 ug/l. TCE and PCE and their decay products were not detected in groundwater. Similarly, only one SVOC (fluorene at 5.0 ug/l) was identified at the GQS of 5/ug/l. Two of these exceedances of GQS occurred in the upgradient well in the northeast corner of the site. No PCBs or pesticides were identified in groundwater samples. Only manganese and sodium were identified above GQS in dissolved samples. These results were high and consistent in all wells and suggest region wide influence of brackish water in the shallow aquifer. Overall, groundwater findings are not remarkable and do not indicate an onsite source of contamination. However, a low level of a VOC in the upgradient well suggests a possible offsite source of petroleum compounds to the east of the property. An open petroleum spill is recorded at a gas station in this area. Results also indicate a regional saline influence in groundwater.

8. Soil vapor samples in the RI showed a variety of VOCs detected at relatively low concentrations throughout the property. PCE ranged from 5.8 to 8.8 ug/m3 in

three samples and well below the NYS DOH monitor level of 100 ug/m3. TCE was detected at 2.2 ug/m3 in one of three samples and below the monitor level of 5 ug/m3. Other VOCs that were detected were mainly BTEX and associate hydrocarbons that were found at relatively low concentrations (below 100 ug/m3) throughout the site. PCE and TCE were not detected in either soil or groundwater and onsite releases are not suggested by past uses of the site. Although no source area was identified onsite, BTEX and associated SVOCs may have an onsite source from trace levels of BTEX observed in soils samples. Alternately, upgradient groundwater data suggests that there may be an offsite source of BTEX to the east of the property.

2.0 DESCRIPTION OF REMEDIAL ACTIONS

The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

The remedial action was evaluated in an alternatives analysis and was determined to be protective of human health and the environment, compliant with standards, criteria, and guidelines (SCGs), effective in the short-term, effective in the long-term, capable of attaining appropriate levels of reduction of toxicity, mobility, or volume of contaminated material, implementable, cost effective, acceptable to the community, consistent with land uses, and sustainable.

A general summary of the Remedial Action is as follows: A Pre-Application Meeting was held on September 19, 2011. A Remedial Investigation (RI) was performed in December 2011 and a RI Report dated March 2012 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated March 2012 was prepared and released with a Fact Sheet on March 7, 2012 for a 30-day public comment period. The RAWP and Stipulation List dated March 19, 2012 was approved by the New York City Office of Environmental Remediation (OER) on July 5, 2012. A Pre-Construction Meeting was held on August 22, 2012. A Fact Sheet providing notice of the start of the remedial action was issued in July 2012 and the remedial action was begun in August 2012 and completed in May 2012.

The following Remedial Actions were completed in this program:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.
2. Established Track 2 Soil Cleanup Objectives (SCO's).
3. Mobilized on site in August 2012 and established Site security, equipment mobilization, utility mark outs and marking & staking excavation areas.

4. Soil/fill was excavated to a depth of approximately 19-feet b.g.s. Unrelated to the remedial action, sump pit and elevator pit area excavations ranged from about 20- to 26-feet b.g.s. Because of wetter than anticipated conditions the total weight of material removed was higher than originally estimated. A total of 8,806 tons of soil/fill was excavated and removed from the property. Soil/fill was disposed at the following facilities:
    a. 7,083 tons (contaminated non-hazardous soil/fill) soil/fill to Lincoln Park West Landfill Closure/Redevelopment Project in Lincoln Park, New Jersey.
    b. 1,723 tons (contaminated non-hazardous soil/fill) to Fullerton Slag Bank Facility (Former Atlas Cement Quarry) in Allentown, Pennsylvania.
5. Collected and analyzed end-point samples. Achieved Track 2 SCOs over 100% of the site.
6. Removed two underground storage tanks and remediated petroleum contaminated soil/fill in compliance with applicable laws and regulations.
7. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
8. All excavated soil/fill material was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a photoionization detector (PID).
9. Sampled and analyzed excavated media as required by disposal facilities. Appropriately segregated excavated media onsite prior to disposal.
10. Transported and disposed all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP.
11. Constructed an engineered Composite Cover System consisting of the first floor and basement slab and foundation elements to prevent human exposure to residual soil/fill remaining under the Site in the foundation setback areas on the western, southern, and eastern boundaries.
12. Installed a Vapor Barrier System that consisted of 46 mil Grace Preprufe 300R, the 32 mil Preprufe 160R, and Bituthene 4000 (59-mil composite) below grade system foundation damp-proofing material in conjunction with sealing of joints with Preprufe LT tape and Bituthene EdgeGuard tape. For sub-slab installation, the Contractor rolled out sheets of the horizontal waterproofing membrane (Preprufe 300R) over the crushed stone layer. All seams in the Preprufe 300R membrane and any connections to the vertical waterproofing membranes (Bituthene 3000 or Preprufe 160R) were sealed with Preprufe Tape. The

Contractor sealed all connections with the top of concrete footings and concrete walls using Bituthene and Preprufe Tape. After the Preprufe 300R membrane was placed and all seams and connections were properly sealed, the Contractor placed reinforcing steel for the slab-on-grade and poured concrete for the slab-on-grade directly on top of the Preprufe 300R membrane. The contractor for construction of the Vapor Barrier System was Crown Waterproofing Inc. of Mount Vernon, New York.

13. Imported 1,344 tons of clean material for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
14. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
15. Performed all activities required for the Remedial Action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
16. Residual soil is present beneath the cover layer and will be subject to Site Management under this Remedial Action.
17. Submitted a Sustainability Report.
18. Submitted a RAR that describes the Remedial Action, certifies that the remedial requirements defined in the Remedial Action Work Plan have been achieved; defines the Site boundaries; describes all Engineering and Institutional Controls applicable to the Site; and describes any changes from the RAWP.
19. Submitted a Site Management Plan (SMP) for long-term management of residual soil, including plans for operation, maintenance, inspection and certification of the performance of Engineering Controls and Institutional Controls. Inspections will be performed annually. Inspection and Certification reports will be submitted by July 30, 2019 (for the reporting period calendar years 2015-2018), July 30, 2024 (for the reporting period calendar years 2019-2023) and every ten years thereafter (for the reporting period consisting of the ten prior calendar years). Inspection and Certification Reports will cover all calendar years since the prior reporting period.
20. The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Engineering Controls and Institutional Controls will be managed in compliance with the SMP. Institutional Controls will include prohibition of the following: (1) prohibition of vegetable gardening and farming in residual soil; (2) prohibition of the use of groundwater beneath the site without treatment rendering it safe for the intended use; (3) prohibition of disturbance of

residual soil material unless it is conducted in accordance with the SMP; and (4) prohibition of higher levels of land usage than the restricted residential uses addressed by this remedial action without prior notification and approval by OER.

3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN

3.1 HEALTH & SAFETY PLAN

The remedial construction activities performed under this program were in compliance with the Health and Safety Plan and applicable laws and regulations. The Site Safety Coordinator was Chris McMahon.

3.2 COMMUNITY AIR MONITORING PLAN

The Community Air Monitoring Plan provided for the monitoring of air during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed in compliance with the Community Air Monitoring Plan in the approved RAWP. The results of Community Air monitoring are shown in Appendix A.

3.3 SOIL/MATERIALS MANAGEMENT PLAN

The Soil/Materials Management Plan provided detailed plans for managing all soil/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included a series of controls to assure effective, nuisance free remedial activity in compliance with applicable laws and regulations. Remedial construction activities performed under this program were in compliance with the SMMP in the approved RAWP.

3.4 STORM-WATER POLLUTION PREVENTION

Storm water pollution prevention included physical methods and processes to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. Remedial construction activities performed under this program were in full compliance with methods and processes defined in the RAWP for storm water prevention and applicable laws and regulations.

3.5 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

No deviations from the Remedial Action Work Plan were encountered during this remedial action.

4.0 REMEDIAL PROGRAM

4.1 PROJECT ORGANIZATION

Principal personnel who participated in the remedial action included Chris McMahon who was the Project Manager and Site Safety Coordinator. The Professional Engineer (PE) and Qualified Environmental Professionals (QEP) for this project were Mark Seel and Steven Ciambruschini, respectively.

4.2 SITE CONTROLS

Site Preparation

A pre-construction meeting was held with all contractors on July 5, 2012. An OER Project Notice was erected at the project entrance and in place during all phases of the Remedial Action.

Mobilization was conducted as necessary for each phase of work at the site. Mobilization included field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations, and utility mark-outs. Each field team member attended an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

The presence of utilities and easements on the site were fully investigated prior to the performance of invasive work such as excavation by using, at a minimum, the One-Call System (811). All invasive activities were performed in compliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities were contacted to locate and mark the locations, and a copy of the Markout Ticket was retained by the contractor prior to the start of drilling, excavation, or other invasive subsurface operations.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations were employed during invasive and other work conducted under the RAP. The integrity and safety of off-Site structures were maintained during all remedial activities performed under the RAP.

Dewatering

Dewatering activities were conducted by use of submersible pumps within two 12" diameter PVC dewatering wells. Extracted groundwater was conveyed to an on-site settling tank prior to discharge to the NYC combined sewer system.

Soil Screening

Excavated soil/fill was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a photo ionization detector (PID). With exception of the soil in the vicinity of the USTs that were removed from the site, no elevated PID readings or visual or olfactory signs of impacted materials were identified.

Stockpile Management

Stockpiles were managed in accordance with the Soil-Material Management Plan included in the RAP. Soils were generally stockpiled in the vicinity of the site entrance gate which was located on the northeastern portion of the site.

Truck Inspection

An outbound-truck inspection station was set up close to the site exit. Before exiting the site, trucks were required to stop at the truck inspection station and were examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris were removed. Brooms, shovels, and potable water were utilized for the removal of soil from vehicles and equipment, as necessary.

Site Security

Site access was controlled by gated entrances to the fenced property that were guarded by a security officer.

Nuisance Controls

The presence of VOCs and airborne dust was monitored using a RAE Systems 10.6 volt miniRAE 2000 PID (or equivalent) and a Thermo MIE DataRam-4000 aerosol monitor, respectively, during all intrusive activity. No nuisance complaints were received during the Remedial Action.

Reporting

Daily reports providing a general summary of activities for each day of active remedial work were emailed to the OER Project Manager. The reports included:

- Project number and a description of site work and locations.
- Quantities of material imported and exported from the Site;
- Status of on-site soil/fill stockpiles;
- A summary of CAMP exceedances, if any;
- Photograph(s) of notable site conditions and activities.

Daily reports and digital photographs of the remedial action are included in Appendix A.

4.3 MATERIALS EXCAVATION AND REMOVAL

A combination of Track 1 and Track 4 SCOs were proposed for this project; however, as documented by the post excavation soil sampling that was completed Track 2 SCOs were achieved for the site cleanup. The SCOs used for this Track 2 cleanup of the Site are listed in Table 1. Soil and materials management on-site and off-site, including excavation, handling and disposal, were conducted in accordance with the Soil/Materials Management Plan provided in the RAWP. As part of the remediation effort, 73% of the Site was excavated to a depth of 16- to 20-feet b.g.s. to allow for the construction of the cellar level. A total of 8,806 tons of excavated historic fill were disposed of at OER-approved disposal facilities. The excavation extents are shown on Figure 4.

Underground Storage Tank (UST) Removal

Two underground storage tanks were removed during the Remedial Action. On 25 July 2012 an approximately 275-gallon UST located approximately one-foot below sidewalk grade was removed from the eastern side of the property by Boro Waste Oil, Inc. (Boro) of Staten Island, New York. The UST and associated piping were removed from the ground and the contents consisting of water and sludge were removed. According to Boro, the UST and piping that were removed from the site were disposed of at S&A Scrap in Brooklyn, New York. No staining or odors were observed in the soil surrounding the UST. Photoionization detector (PID) readings from the sidewalls and base of the excavation were documented between 1 ppm and 4 ppm. End point samples were collected following the tank removal and are discussed below.

On 23 October 2012 a 550-gallon UST located approximately three-feet below sidewalk grade was removed from the northeastern corner of the property by Boro. According to Boro the UST that was removed from the site was disposed of at S&A Scrap in Brooklyn, New York. Elevated PID readings were observed in the soil beneath the tank ranging between 81 ppm and 161 ppm. Due to the presence of groundwater in the UST excavation a spill was reported to the NYSDEC and Spill No. 1210222 was assigned. End point samples were collected following the tank removal and are discussed below

UST closure documentation is provided in Appendix B.

End Point Sample Results

Based on the results of the Remedial Investigation Report, the in-situ soil sampling that was completed during the Remedial Investigation documented that the fill material at the site had been impacted with metals. As the site re-development activities included the removal of all fill material, no end-point sampling was recommended for the projected site re-development activities. However, based on the requirements of the 19 March 2012 Stipulation List, two end-point soil samples were required upon completion of site excavation activities. Three end-point samples (PE-6A, PE-7A, and PE-7B) were collected from the setback area along the western boundary of the site to document the conditions of soil left in place at the Site. In addition, ten end-point samples (PE-1 through PE-10) were collected following the removal of the two USTs uncovered at the Site.

A map of end-point sample locations is shown in Figure 5. A tabular summary of end-point sampling results compared to SCO's is included in Table 2 and summarized on Figure 6. A complete copy of the laboratory analytical package is provided in Appendix C.

On 29 August 2012, three end-point samples were collected from the setback areas on the western and southern sides of the site. PE-6A was collected from 0.5- to 0.83-feet b.g.s in the southern setback area and PE-7A and PE-7B were collected from 0.5- to 1-feet and 1.5- to 2-feet b.g.s., respectively, in the western setback area.

Soil samples were submitted to Accutest Laboratories of Dayton, New Jersey, a New York State Department of Health certified laboratory, for the following analyses:

- Volatile organic compounds by EPA Method 8260;

- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals by EPA Method 6010C;
- Pesticides by EPA method 8081B; and,
- Polychlorinated Biphenyls by EPA method 8082A.

No exceedances of the Track 1 SCOs were reported in PE-6A. Exceedances of the Track 1 SCOs for 4'4-DDT (0.0063 mg/kg) and lead (122 mg/kg) were detected in PE-7A. As a result of these exceedances, the deeper sample PE-7B was analyzed. Exceedances of the Track 1 SCOs for 4'4-DDT (0.0096 mg/kg), lead (129 mg/kg), and mercury (0.2 mg/kg) were detected in PE-7B.

On 12 October 2012 two additional end-point samples were collected from two deeper intervals at the PE-7A/7B location. Soil samples were submitted to Accutest Laboratories of Dayton, New Jersey, a New York State Department of Health certified laboratory, for the following analyses:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals by EPA Method 6010C;
- Pesticides by EPA method 8081B; and,
- Polychlorinated Biphenyls by EPA method 8082A.

PE-7C was collected from 2- to 2.5-feet and PE-7D was collected from 3- to 3.5-feet b.g.s. An exceedance of the Track 1 SCOs was detected in PE-7C for lead (75.2 mg/kg) and exceedances of the Track 1 SCOs were detected in PE-7D for selenium (4.14 mg/kg) and zinc (129 mg/kg). Additionally, an exceedance of the Track 2 SCOs was detected in PE-7D for lead (470 mg/kg).

On 25 July 2012, four end-point samples (PE-2 through PE-5) were collected from the sidewalls of the UST excavation on the eastern side of the site from 3.5- to 4-feet b.g.s. and one end-point sample (PE-1) was collected from the base of the UST excavation from 4- to 4.5-feet b.g.s. Soil samples were submitted to Accutest Laboratories of

Dayton, New Jersey, a New York State Department of Health certified laboratory, for the following analyses:

- Volatile organic compounds by EPA Method 8260; and,
- Semi-volatile organic compounds by EPA Method 8270.

No exceedances of the Track 1 SCOs were reported in any of the samples collected.

On 3 January 2013, four end-point samples (PE-7 through PE-10) were collected from the sidewalls of the UST excavation on the north-central portion of the site from 3.5- to 4-feet b.g.s. and one end-point sample (PE-6) was collected from the base of the UST excavation from 4- to 4.5-feet b.g.s. Soil samples were submitted to Accutest Laboratories of Dayton, New Jersey, a New York State Department of Health certified laboratory, for the following analyses:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals by EPA Method 6010C;
- Pesticides by EPA method 8081B; and,
- Polychlorinated Biphenyls by EPA method 8082A.

Exceedances of the Track 1 SCOs were detected for nickel in PE-6 (30.4 mg/kg) and PE-8 (41.5 mg/kg).

Quality assurance (duplicate) and quality control (field blanks) samples were incorporated into the sampling event as required by NYCOER and consisted of one duplicate soil sample and one field blank per sampling event. Soil field blanks were analyzed for VOCs and/or VOCs, SVOCs, and metals and soil duplicate samples were analyzed for VOCs, SVOCs, and metals.

4.4 MATERIALS DISPOSAL

Disposal facilities were reported to OER when they were identified and prior to the start of remedial action. A pre-approval letter from all disposal facilities was provided to OER prior to any soil/fill material removal from the site. Documentation specified in the

RAP - Appendix C - Section 1.6 "Materials Disposal Off-Site" was provided to OER. All fill material was disposed of at the Lincoln Park West Landfill Closure / Redevelopment Project in Lincoln Park, New Jersey and the Fullerton Slag Bank Facility (Former Atlas Cement Quarry) in Allentown, Pennsylvania. Disposal documentation is provided in Appendix D.

On 7 September 2012 a letter was sent to Impact Environmental, LLC located in Lyndhurst, New Jersey requesting soil disposal acceptance documentation for the non-hazardous fill material to be removed from the site and disposed of at the Lincoln Park, New Jersey facility. The letter provided analytical results from previously conducted investigations. On 9 October 2012 Langan received a letter from Birdsall Services Group, Inc. which provided acceptance for disposal of the proposed materials at the facility.

On 3 April 2013 a letter was sent to Impact Environmental, LLC located in Lyndhurst, New Jersey requesting soil disposal acceptance documentation for the non-hazardous fill material to be removed from the site and disposed of at the Total Recycling Corporation facility of Allentown, Pennsylvania. The letter provided analytical results from previously conducted investigations. On 3 April 2013 Langan received a letter from Impact Environmental, LLC which provided acceptance for disposal of the proposed materials at the facility.

Between 12 October 2012 and 23 April 2013, 268 truckloads (or 8,806 tons) of historic fill was excavated and transported off-site. 210 truckloads (or 7,083 tons) of historic fill was disposed of at the Lincoln Park, New Jersey facility and 58 truckloads (or 1,723 tons) of historic fill was disposed of at the Allentown, Pennsylvania facility.

The tonnage and destination of material removed and disposed off-Site is presented below:

Destination	Type of Material	Quantity (Tons)
Lincoln Park, New Jersey	Non-hazardous impacted fill material and un-impacted native material	7,083
Allentown, Pennsylvania	Non-hazardous impacted fill material	1,723

Letters from Langan to the disposal facilities providing materials type, source and data, and acceptance letters from the disposal facilities stating approval to accept the above

materials are attached in Appendix D. Manifests and weight tickets are included in Appendix D.

4.5 BACKFILL IMPORT

814 tons of #2 NYSDOT Crushed Stone was used as the geotechnical subbase for the Site. This material was provided by New York Sand & Stone, LLC of Brooklyn, New York and consisted of 1.25-inch crushed stone that was mined and processed by Weldon Materials at the quarry in Hopatcong, New Jersey. All backfill material was produced from 100% blasted quarry rock that originated from a virgin source and was free of environmental contamination. Documentation from New York Sand & Stone, LLC was provided and approved by Langan on 21 February 2013. The material was placed throughout the entire excavation area to support the mat slab. The excavation extents are provided on Figure 4.

530 tons of Item 4 Subbase was used as the geotechnical subbase for the Site. This material was provided by New York Sand & Stone, LLC of Brooklyn, New York and consisted of crushed stone from blasted ledge rock from ongoing construction at Metropolitan Transit Authority's (MTA) 86th Street Subway Station in Manhattan, New York. All backfill material was derived from a virgin source that was not previously disturbed and was free of any known environmental contaminants. Documentation from New York Sand & Stone, LLC was provided and approved by Langan on 21 February 2013. The material was placed throughout the entire excavation area to support the mat slab. The excavation extents are provided on Figure 4.

Documentation of the source material and of the volume imported to the site is provided in Appendix E.

4.6 DEMARACTION

Soil below the final cover is residual soil that will be addressed by site management under this remedial action.

5.0 ENGINEERING CONTROLS

Engineering Controls were employed in the Remedial Action to address residual soil remaining at the site. The Site has two primary Engineering Control Systems. These are:

(1) a Composite Cover System consisting of concrete foundation elements and building slabs; and,

(2) a Vapor Barrier / Waterproof Barrier System.

Composite Cover System

Exposure to residual soil/fill is prevented by an engineered Composite Cover System that has been built on the Site. This Composite Cover System is comprised of the basement slab and the first floor slab in the set back areas, and foundation elements in the setback areas on the western, southern, and eastern boundaries of the Site. The contractor for construction of the Composite Cover System was Triton Construction of Manhattan, New York. The composite cover system was built in accordance with the architectural plans that were provided in Appendix E of the RAWP.

Vapor Barrier System

Exposure to soil vapor is prevented by a Vapor Barrier System that has been built on the Site. This Vapor Barrier System consists of 46 mil Grace Preprufe 300R, the 32 mil Preprufe 160R, and Bituthene 4000 (59-mil composite) below grade system foundation damp-proofing material in conjunction with sealing of joints with Preprufe LT tape and Bituthene EdgeGuard tape. For sub-slab installation, the Contractor rolled out sheets of the horizontal waterproofing membrane (Preprufe 300R) over the mud slab. All seams in the Preprufe 300R membrane and any connections to the vertical waterproofing membranes (Bituthene 3000 or Preprufe 160R) were sealed with Preprufe Tape. The Contractor sealed all connections with the top of concrete footings and concrete walls using Bituthene and Preprufe Tape. After the Preprufe 300R membrane was placed and all seams and connections were properly sealed, the Contractor placed reinforcing steel for the slab-on-grade and poured concrete for the slab-on-grade directly on top of the Preprufe 300R membrane. The contractor for construction of the Vapor Barrier System was Crown Waterproofing Inc. of Mount Vernon, New York. The vapor barrier was installed in accordance with the plans that were provided in Appendix H of the RAWP.

6.0 INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under this Remedial Action to assure permanent protection of public health by elimination of exposure to residual materials. These IC's define the program to operate, maintain, inspect and certify the performance of Engineering Controls and Institutional Controls on this property. These Institutional Controls will be implemented in accordance with the Site Management Plan included in this RAR.

(1) The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;

(2) Compliance with an OER-approved Site Management Plan including procedures for appropriate operation, maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will inspect EC's and IC's and submit to OER a written certification that evaluates their performance in a manner and at a frequency to be determined by OER;

(3) Engineering Controls will not be discontinued without prior OER approval;

(4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;

(5) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;

(6) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;

(7) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;

(8) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

7.0 SITE MANAGEMENT PLAN

Site Management is the last phase of the remedial process and begins after the approval of the Remedial Action Report (RAR) and issuance of the Notice of Completion (NOC) by OER. It is the responsibility of the property owner to ensure that all Site Management responsibilities are performed. The penalty for failure to implement the SMP includes revocation of the Notice of Completion and all associated certifications and liability protections.

Engineering Controls and Institutional Controls have been incorporated into this Remedial Action to ensure that the site remains protective of public health and the environment. Generally, EC's provide physical protective measures and IC's provide restrictions on Site usage and establish remedial operation, maintenance, inspection and certification measures. This Site Management Plan has been established to govern long-term performance of EC's and IC's for this property.

The SMP provides a detailed description of procedures required to manage residual material at the Site following the completion of remedial construction in accordance with the NYC Voluntary Cleanup Agreement with OER. This includes: (1) operation and maintenance of Engineering Controls; (2) inspection of EC's and IC's; and (3) certification of performance of EC's and IC's.

ENGINEERING CONTROLS

Engineering Controls were employed in the remedial action to address residual materials remaining at the site. The Site has two Engineering Control Systems. Engineering Controls for this property are:

(1) a Composite Cover System consisting of concrete building slabs; and,

(2) a Vapor Barrier / Waterproof Barrier System.

Operation and Maintenance of Composite Cover System

Chapter 5 describes the Composite Cover System utilized in this Remedial Action and discusses the location of each cover type. The Composite Cover System is a permanent Engineering Control for the Site. The system will be inspected and its performance certified at specified intervals defined in this SMP. A Soil/Materials Management Plan is

included in this Site Management Plan and outlines the procedures to be followed in the event that the composite cover system and underlying residual soil/material must be disturbed after the Remedial Action is complete.

The Composite Cover System does not require any special operation or maintenance activities. If the system is breached during future construction activities, the system will be rebuilt by reconstructing the system according to the original design and tying newly constructed cover layers into existing cover layers to form a continuous layer(s).

Operation and Maintenance of Vapor Barrier System

Chapter 5 describes the Vapor Barrier System utilized in this Remedial Action. The Vapor Barrier System is a permanent Engineering Control for the Site.

The Vapor Barrier System does not require any special operation or maintenance activities. If the system is breached during future construction activities, the system will be rebuilt by reconstructing the vapor barrier layers and sealing the newly constructed materials with existing barrier materials in accordance with manufacturer specifications.

INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under this Remedial Action to assure permanent protection of public health by elimination of exposure to residual materials. These IC's define the program to operate, maintain, inspect and certify the performance of Engineering Controls and Institutional Controls on this property. These Institutional Controls will be implemented in accordance with this Site Management Plan.

Institutional Controls are also designed to prevent future exposure to residual soil/materials by controlling disturbances in the subsurface, restrict higher uses of the property than those addressed by the Remedial Action and establish restrictions on activities and site usage. Institutional Controls for this property are:

(1) The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;

(2) Compliance with an OER-approved Site Management Plan including procedures for appropriate maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will

inspect EC's and IC's and submit to OER a written certification that evaluates their performance in a manner and at a frequency to be determined by OER;

(3) Engineering Controls will not be discontinued without prior OER approval;

(4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;

(5) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;

(6) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;

(7) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;

(8) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

INSPECTIONS

Engineering Controls and Institutional Controls will be inspected each year by building superintendent staff and in 2018 and every ten years thereafter by a qualified environmental professional. The results of inspections will be certified and reported at a frequency defined below. Langan will provide training on the inspection of the Composite Cover System and the Vapor Barrier System so that annual inspections can be performed by building superintendent staff to ensure proper function. If problems are encountered during these annual inspections, the building superintendent will contact Langan or OER. OER will provide a form for annual inspections to be filled out by building superintendent staff. These forms should be completed and signed by the building superintendent who made the inspection and maintained on file in the building until the next QEP inspection. The inspections will evaluate the following:

- If Engineering Controls or Institutional Controls employed at the Site continue to perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of the Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this SMP has been maintained;
- If site records are complete and up to date; and,
- General Site conditions at the time of inspection.

In an addition, if an emergency occurs, such as a natural disaster, or if an unforeseen failure of any of the Engineering Controls occurs, an inspection of the Site will be performed within 14 days to evaluate the Engineering Controls and a letter report of findings will be submitted to OER.

Inspection of Composite Cover System

Inspection of the composite cover will consist of a visual inspection of concrete slab, and will include all accessible locations including the site perimeter and all internal access points on the ground floor. The inspector will document any faulty or defective conditions observed during the inspection, broken or damaged concrete, or any failure in the integrity of the floor that would compromise the ability of the composite cover to perform as an engineering control.

Inspection of Vapor Barrier System

The vapor barrier will be inspected if rendered visible during an inspection of a breach to the composite cover. If the inspector observes a failure in the composite cover that exposes the vapor barrier, then the underlying vapor barrier will be inspected for any damage, including tears or perforations, which would prevent the vapor barrier from completing its intended purpose.

Site Use Prohibitions

Inspections to evaluate the status of site use prohibitions will include an evaluation of whether there is vegetable gardening or farming in residual soil/fill; whether groundwater underlying the site has been used without treatment rendering it safe for its intended use; whether activities that have disturbed site soil/fill have been conducted pursuant to the Soil/Material Management provisions of the SMP, or otherwise approved by OER; and whether the site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action.

INSPECTION AND CERTIFICATION LETTER REPORT

Results of inspections performed during a reporting period and certification of performance of all Engineering Controls and Institutional Controls will be included in an Inspection and Certification Letter Report to be submitted by July 30, 2019 (for the reporting period calendar years 2014-2018) and every ten years thereafter (for the

reporting period consisting of the nine prior calendar years). Inspection and Certification Letter Reports will be submitted to OER in digital format and will include annual inspection forms signed by building superintendents for all intervening years. The letter report will include, at a minimum:

- Date of inspections;
- Personnel conducting inspections;
- Description of the inspection activities performed;
- Any observations, conclusions, or recommendations;
- Copy of any inspection forms; and
- Certification of the performance of Engineering Controls and Institutional Controls, as discussed below.

The certification of the performance of EC's and IC's will establish:

- If Engineering Controls or Institutional Controls employed at the Site continue to be in place and perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this Site Management Plan has been maintained;
- If vegetable gardening and farming in residual soils has been prevented;
- If groundwater underlying the Site is being utilized without treatment rendering it safe for the intended purpose has been prevented;
- If activities on the Site that have disturbed residual soil/fill material have been in accordance with the Soil/Materials Management Plan in this SMP;
- If the Site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action;
- If site records are complete and up to date;
- If the Site continues to be registered as an E-Designated property by the NYC Department of Buildings;

OER may enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's.

NOTIFICATIONS

Notifications will be submitted by the property owner to OER as described below:

- 60-day advance notice of any proposed changes in Site use, such as an upgrade from existing use to unrestricted use that was not contemplated is the Remedial Action.
- Notice within 14 days of any emergency, such as a fire, flood, or earthquake that has the potential to reduce the effectiveness of Engineering Controls in place at the Site.

8.0 SOIL/MATERIALS MANAGEMENT PLAN

8.1 SOIL MANAGEMENT PLAN

Any future intrusive work that will disturb residual soil/fill beneath the property, including modifications or repairs to the existing composite cover system, will be performed in compliance with this Soil/Materials Management Plan (SMMP). Intrusive work will also be conducted in accordance with the procedures defined in the Community Air Monitoring Plan (CAMP) in this plan and a Construction Health and Safety Plan (HASP). The HASP is the responsibility of the property owner and should be in compliance with NYSDEC DER-10 Technical Guide and 29 CFR 1910 and 1926, and all other applicable Federal, State and City regulations. Intrusive construction work should be compliant with this SMMP and described in the next Inspection and Certification Letter Report.

Soil Screening Methods

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional (QEP). Soil screening will be performed during any future intrusive work.

Stockpile Methods

Stockpiles will be used to isolate excavated soil and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 6-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is

required. Silt fencing and hay bales will be used as needed near catch basins, surface waters, and other discharge points.

Characterization of Excavated Materials

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Excavated soil will only be reused on-Site with prior approval by OER.

Materials Excavation, Load-Out and Departure

The PE/QEP overseeing the remedial action will:

- oversee intrusive work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this management plan;
- ensure that Site maintenance activities and maintenance-related grading cuts will not interfere with, or otherwise impair or compromise the remedial measures established during the remediation construction phase;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site intrusive work.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Off-Site Materials Transport

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance.

Outbound truck transport routes will take into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

Materials Disposal Off-Site

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material.

Documentation associated with disposal of all material will include records and approvals for receipt of the material. All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be retained and included in the following Inspection and Certification Report. A manifest system for off-Site transportation of exported materials will be employed. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

Materials Reuse On-Site

All of the soil excavated during any future repair or construction purposes will be disposed of off-site unless otherwise approve by OER beforehand.

Repair of Remedial Systems

After completion of invasive work, any damage of the composite cover system or vapor barrier will be restored to the original condition established during initial construction.

Import of Backfill Soil from Off-Site Sources

In the event that soil importation is needed for the backfilling purposes, this Section presents the requirements for imported fill materials. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. The backfill and cover soil quality objectives including NYSDEC Part 375 Track 2 Residential SCOs and groundwater protection standards.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC; and
- Virgin quarried material or other materials with an approved Beneficial Use Determination (BUD) from NYSDEC for reuse as clean fill.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this SMP. The Inspection and Certification Report will report the source of the fill, evidence that an inspection was performed on the source,

chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory, and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material from the identified clean soil sources will be taken at a minimum frequency of one sample for every 500 cubic yards of material. One composite sample will be collected from each source of virgin quarried material or other material with an NYSDEC approved BUD, unless otherwise approved by OER.

Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) may be imported from facilities permitted or registered by NYSDEC. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA will not be used as cover material.

Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported, and disposed in accordance with applicable laws and regulations. Liquids

discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by NYSDEC.

Storm-water Pollution Prevention

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. All existing storm-water systems will be inspected to ensure proper operation.

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEPs.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.

- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

If nuisance dust emissions are identified, work will be halted and the source of dust will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEPs.

Noise

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

8.2 COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

8.2.1 VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive

work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

8.2.2 Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate

exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

8.3 CONTINGENCY PLAN

Emergency Telephone Numbers

In the event of any emergency condition pertaining to these remedial systems, the Owner's representative(s) should contact the appropriate parties from the contact list below. Prompt contact should also be made to Steven Ciambruschini. These emergency contact lists must be maintained in an easily accessible location at the Site.

Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center: 3 day notice required for utility markout	(800) 272-4480
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

Contact Numbers

Langan: Steven Ciambruschini	(201) 794-6900
NYC Office of Environmental Remediation	(212) 788-8841; 311

TABLES

Table 1
Track 2 Soil Cleanup Objectives
508 West 24th Street
New York, New York

Constituent	CAS NO.	Restricted - Residential (mg/kg)
PESTICIDES		---
4,4'-DDT	50-29-3	7.9
METALS		
Lead	7439-92-1	400
Mercury	7439-97-6	0.81
Selenium	7782-49-2	---
Silver	7440-22-4	---
Zinc	7440-66-6	10,000

Soil cleanup objective (SCO) tables in 6 NYCRR 375. Table 375-6.8(b) is the source for restricted use.

mg/kg = milligrams per kilogram.

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
508 WEST 24th STREET
New York, New York

Sample Location:							UST-1 Post Excavation Samples												UST-2 Post Excavation Samples												Setback Area Post Excavation Samples										Field Blanks					
Sample ID:		SUBPART 375-6 (Revised Brownfields) #					PE-1		PE-2		PE-3		PE-3 (DUP-1)		PE-4		PE-5		PE-6		PE-7		PE-8		PE-9		PE-9 (DUP)		PE-10		PE-6A		PE-7A		PE-7B		PE-7C		PE-7D		FB-1		FB		FB-1	
Langan Sample Number:			RESTRICTED USE SOIL CLEANUP OBJECTIVES				036		037		038		041		039		040		056		057		058		059		061		060		043		145		147		148		149		042		061		047	
Laboratory Sample Number:		UNRESTRICTED USE OBJECTIVES	Protection of Public Health				JB12195-1		JB-12195-2		JB-12195-3		JB-12195-6		JB-12195-4		JB-12195-5		JB25553		JB25554		JB25555		JB25556		JB25558		JB25557		JB15113-1		JB15113-3		JB15113-4R		12J0486-01		12J0486-02		JB-12195-7		JB25558		JB15113-5	
Sampling Date:	CAS No.			Restricted -	Restricted -	Restricted -	7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		8/29/2012		8/29/2012		8/29/2012		10/12/2012		10/12/2012		7/25/2012		1/4/2013		8/29/2012	
Sampling Depth (ft):			Residential	Residential	Commercial	Industrial	4-4.5		3.5-4		3.5-4		3.5-4		3.5-4		3.5-4		4.5		3.5		3.5		3.5		3.5		3.5		0.5'-1'		0-0.5		1-1.5		2-2.5		3-3.5		---		---		---	
VOC Sampling Depth (ft):																																														
Units:		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/kg	Q	mg/L	Q	mg/L	Q
Volatile Organic Compounds																																														
Acetone	67-64-1	0.05	100	100	500	1,000	ND		ND		ND		0.0036	J	0.0038	J	ND		0.0064	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	71-43-2	0.06	2.9	4.8	44	89	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bromochloromethane	74-97-5	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	75-27-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	75-25-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bromomethane	74-83-9	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Butanone (MEK)	78-93-3	0.12	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	75-15-0	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbon tetrachloride	56-23-5	0.76	1.4	2.4	22	44	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chlorobenzene	108-90-7	1.1	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chloroethane	75-00-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chloroform	67-66-3	0.37	10	49	350	700	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.00029	J	0.00035	J	ND		ND		ND		ND		ND		ND	
Chloromethane	74-87-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Cyclohexane	110-82-7	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	96-12-8	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	124-48-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dibromoethane	106-93-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	95-50-1	1.1	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	541-73-1	2.4	17	49	280	560	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	106-46-7	1.8	9.8	13	130	250	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dichlorodifluoromethane	75-71-8	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	75-34-3	0.27	19	26	240	480	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	107-06-2	0.02	2.3	3.1	30	60	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	75-35-4	0.33	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	156-59-2	0.25	59	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	156-60-5	0.19	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	78-87-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dioxane	123-91-1	0.1	9.8	13	130	250	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Ethylbenzene	100-41-4	1	30	41	390	780	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Freon 113	76-13-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Hexanone	591-78-6	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Isopropylbenzene	98-82-8	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Acetate	79-20-9	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Methylcyclohexane	108-87-2	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Tert Butyl Ether	1634-04-4	0.93	62	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methyl-2-pentanone(MIBK)	108-10-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	75-09-2	0.05	51	100	500	1,000	ND		ND		ND		ND		ND		ND		0.0055		ND		ND		0.0046	J	0.0098		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	100-42-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Tetrachloroethene	127-18-4	1.3	5.5	19	150	300	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	108-88-3	0.7	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.00031	J	ND		0.00035	J	0.00035	J	ND		ND		ND		ND		ND		ND	
1,2,3-Trichlorobenzene	87-61-6	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	71-55-6	0.68	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	79-01-6	0.47	10	21	200	400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trichlorofluoromethane	75-69-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	75-01-4	0.02	0.21	0.9	13	27	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
m,p-Xylene		#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
o-Xylene	95-47-6	0.26	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	79-01-6	0.47	10	21	200	400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trichlorofluoromethane (Freon 11)	75-69-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trimethylbenzene-1,2,4	95-63-6	3.6	47	52	190	380	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trimethylbenzene-1,3,5	108-67-8	8.4	47	52	190	380	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl Chloride	75-01-4	0.02	0.21	0.9	13	27	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Xylene (o-Xylene)	95-47-6	0.26	100	100	500	1,000	ND		ND		ND		0.0005	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Xylene (m-Xylene)	108-38-3	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Xylene (p-Xylene)	106-42-3	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Xylene (m,p-Xylene)	79601-23-1	0.26	100	100	500	1,000	ND		ND		ND		0.00036	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Xylene (total)	1330-20-7		100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Total TIC, VOC			#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Total TIC, Volatile			#N/A	#N/A	#N/A	#N/A	0.01	J	0.0067	J	0.0059	J	0.79	J	0		0.0086	J	0.2823	J	0.3244	J	0		0.2371	J	0.2964	J	0.1181	J	0.00064		0.0007		0		ND		ND		0		ND		0	

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
508 WEST 24th STREET
New York, New York

Sample ID:	CAS No.	SUBPART 375-6 (Revised Brownfields) #					PE-1		PE-2		PE-3		PE-3 (DUP-1)		PE-4		PE-5		PE-6		PE-7		PE-8		PE-9		PE-9 (DUP)		PE-10		PE-6A		PE-7A		PE-7B		PE-7C		PE-7D		FB-1		FB		FB-1	
Langan Sample Number:		RESTRICTED USE SOIL CLEANUP OBJECTIVES					036		037		038		041		039		040		056		057		058		059		061		060		043		145		147		148		149		042		061		047	
Laboratory Sample Number:		UNRESTRICTED USE OBJECTIVES	Protection of Public Health				JB12195-1		JB-12195-2		JB-12195-3		JB-12195-6		JB-12195-4		JB-12195-5		JB25553		JB25554		JB25555		JB25556		JB25558		JB25557		JB15113-1		JB15113-3		JB15113-4R		12J0486-01		12J0486-02		JB-12195-7		JB25558		JB15113-5	
Sampling Date:				Restricted - Residential	Restricted - Commercial	Restricted - Industrial	7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		8/29/2012		8/29/2012		8/29/2012		10/12/2012		10/12/2012		7/25/2012		1/4/2013		8/29/2012	
Sampling Depth (ft):			Residential				4-4.5		3.5-4		3.5-4		3.5-4		3.5-4		3.5-4		4.5		3.5		3.5		3.5		3.5		3.5		0.5'-1'		0-0.5		1-1.5		2-2.5		3-3.5		---		---		---	
VOC Sampling Depth (ft):																																														
Units:		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/kg	Q	mg/L	Q	mg/L	Q
Semi Volatile Organic Compounds																																														
2-Chlorophenol	95-57-8	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4-Chloro-3-methyl phenol	59-50-7	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4-Dichlorophenol	120-83-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4-Dimethylphenol	105-67-9	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4-Dinitrophenol	51-28-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4,6-Dinitro-o-cresol	534-52-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2-Methylphenol	95-48-7	0.33	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
3&4-Methylphenol		#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2-Nitrophenol	88-75-5	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4-Nitrophenol	100-02-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Pentachlorophenol	87-86-5	0.8	2.4	6.7	6.7	55	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Phenol	108-95-2	0.33	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,3,4,6-Tetrachlorophenol	58-90-2	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4,5-Trichlorophenol	95-95-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4,6-Trichlorophenol	88-06-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Acenaphthene	83-32-9	20	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.0188	J	0.0301	J	ND		ND		NA		ND		NA	
Acenaphthylene	208-96-8	100	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.0143	J	0.0239	J	ND		ND		NA		ND		NA	
Acetophenone	98-86-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		NA	
Anthracene	120-12-7	100	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.0674		0.108		ND		ND		NA		ND		NA	
Atrazine	1912-24-9	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		NA	
Benzo(a)anthracene	56-55-3	1	1	1	5.6	11	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.273		0.332		ND		ND		NA		ND		NA	
Benzo(a)pyrene	50-32-8	1	1	1	1	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.274		0.313		ND		ND		NA		ND		NA	
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	11	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.278		0.303		ND		ND		NA		ND		NA	
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.194		0.238		ND		ND		NA		ND		NA	
Benzo(k)fluoranthene	207-08-9	0.8	1	3.9	56	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.181		0.264		ND		ND		NA		ND		NA	
4-Bromophenyl phenyl ether	101-55-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Butyl benzyl phthalate	85-68-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
1,1'-Biphenyl	92-52-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Benzaldehyde	100-52-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2-Chloronaphthalene	91-58-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4-Chloroaniline	106-47-8	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Carbazole	86-74-8	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.02	J	0.0368	J	ND		ND		NA		ND		NA	
Caprolactam	105-60-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Chrysene	218-01-9	1	1	3.9	56	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.294		0.357		ND		ND		NA		ND		NA	
bis(2-Chloroethoxy)methane	111-91-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
bis(2-Chloroethyl)ether	111-44-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
bis(2-Chloroisopropyl)ether	108-60-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,4-Dinitrotoluene	121-14-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
2,6-Dinitrotoluene	606-20-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
3,3'-Dichlorobenzidine	91-94-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.33	0.56	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.0472		0.0917	J	ND		ND		NA		ND		NA	
Dibenzofuran	132-64-9	7	14	59	350	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Di-n-butyl phthalate	84-74-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Di-n-octyl phthalate	117-84-0	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		0.113		0.0913		0.0808		0.094		0.0946		NA		NA		NA		ND		ND		NA		NA		NA	
Diethyl phthalate	84-66-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Dimethyl phthalate	131-11-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		0.0484	J	ND		0.0476	J	ND		0.0522	J	0.0409	J	0.0348	J	ND		ND		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	117-81-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		0.0626	J	0.113		0.0461	J	0.0437	J	0.0436	J	0.053	J	ND		ND		0.0679		ND		ND		NA		NA		NA	
Fluoranthene	206-44-0	100	100	100	500	1,000	ND		ND		ND		ND		ND		0.0147	J	ND		ND		ND		ND		ND		ND		ND		0.581		0.691		ND		ND		NA		NA		NA	
Fluorene	86-73-7	30	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.0144	J	0.0234	J	ND		ND		NA		NA		NA	
Hexachlorobenzene	118-74-1	0.33	0.33	1.2	6	12	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Hexachlorobutadiene	87-68-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Hexachlorocyclopentadiene	77-47-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Hexachloroethane	67-72-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	11	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.165		0.205		ND		ND		NA		NA		NA	
Isophorone	78-59-1	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
2-Methylnaphthalene	91-57-6	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
2-Nitroaniline	88-74-4	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
3-Nitroaniline	99-09-2	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
4-Nitroaniline	100-01-6	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Naphthalene	91-20-3	12	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Nitrobenzene	98-95-3	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
N-Nitroso-di-n-propylamine	621-64-7	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
N-Nitrosodiphenylamine	86-30-6	---	---	---	---	---	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Phenanthrene	85-01-8	100	100	100	500	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.297		0.428		ND		ND		NA		NA		NA	
Pyrene	129-00-0	100	100	100	500	1,000	0.0172	J	ND		0.012	J	ND		0.0137	J	0.0186	J	ND		ND		ND		0.0158	J	ND		ND		ND		0.546		0.62		ND		ND		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene	95-94-3	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	
Simazine	122-34-9	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		NA		NA		ND	
Total TIC, Semi-Volatile		#N/A	#N/A	#N/A	#N/A	#N/A	2.02	J	4.5	J	1.07	J	0.33	J	1.62	J	0		11.12	J	5.63	J	0.13	J	5.08	J	6.28	J	2.36	J	0.0522		3.2055		4.0056		ND		ND		NA		NA		NA	
Total SVOCs	---	#N/A	#N/A	#N/A	#N/A	#N/A	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		ND	

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
508 WEST 24th STREET
New York, New York

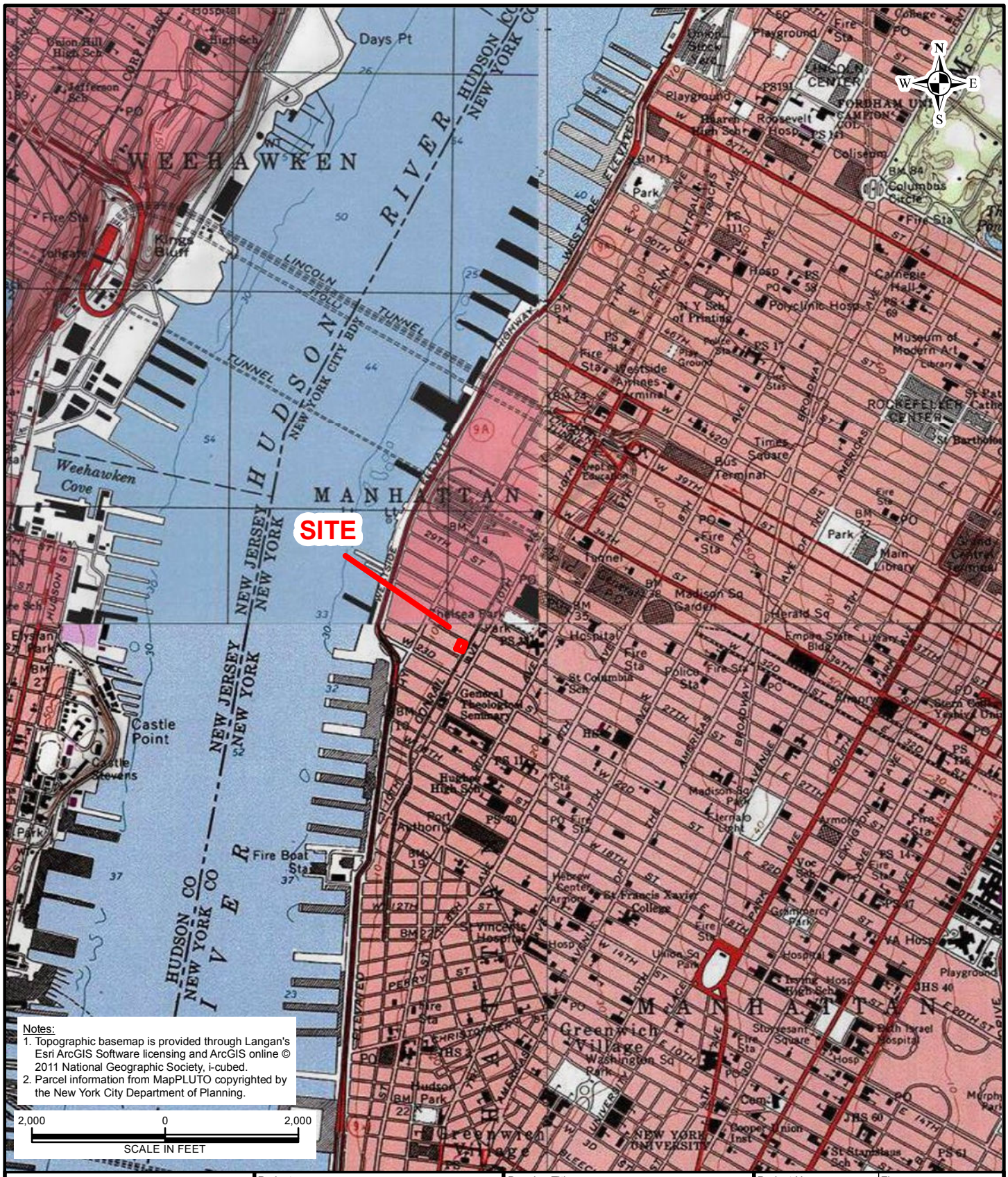
Sample ID:	CAS No.	SUBPART 375-6 (Revised Brownfields) #					PE-1		PE-2		PE-3		PE-3 (DUP-1)		PE-4		PE-5		PE-6		PE-7		PE-8		PE-9		PE-9 (DUP)		PE-10		PE-6A		PE-7A		PE-7B		PE-7C		PE-7D		FB-1		FB		FB-1	
Langan Sample Number:			RESTRICTED USE SOIL CLEANUP OBJECTIVES				036		037		038		041		039		040		056		057		058		059		061		060		043		145		147		148		149		042		061		047	
Laboratory Sample Number:		UNRESTRICTED USE OBJECTIVES	Protection of Public Health				JB12195-1		JB-12195-2		JB-12195-3		JB-12195-6		JB-12195-4		JB-12195-5		JB25553		JB25554		JB25555		JB25556		JB25558		JB25557		JB15113-1		JB15113-3		JB15113-4R		12J0486-01		12J0486-02		JB-12195-7		JB25558		JB15113-5	
Sampling Date:				Restricted - Residential	Restricted - Commercial	Restricted - Industrial	7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		1/3/2013		8/29/2012		8/29/2012		8/29/2012		10/12/2012		10/12/2012		7/25/2012		1/4/2013		8/29/2012	
Sampling Depth (ft):			Residential				4-4.5		3.5-4		3.5-4		3.5-4		3.5-4		3.5-4		4.5		3.5		3.5		3.5		3.5		3.5		0.5'-1'		0-0.5		1-1.5		2-2.5		3-3.5		---		---		---	
VOC Sampling Depth (ft):																																														
Units:		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/kg	Q	mg/L	Q	mg/L	Q
Polychlorinated Biphenyls/Pesticides																																														
Aldrin	309-00-2	0.005	0.019	0.097	0.68	1	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
alpha-BHC	319-84-6	0.02	0.097	0.48	3.4	7	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
beta-BHC	319-85-7	0.036	0.072	0.36	3	14	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
delta-BHC	319-86-8	0.04	100	100	500	1,000	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
gamma-BHC (Lindane)	58-89-9	0.1	0.28	1.3	9.2	23	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
alpha-Chlordane	5103-71-9	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
gamma-Chlordane	5103-74-2	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Dieldrin	60-57-1	0.005	0.039	0.2	1.4	3	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
4,4'-DDD	72-54-8	0.0033	2.6	13	92	180	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		0.0031		ND		ND		NA		ND		ND	
4,4'-DDE	72-55-9	0.0033	1.8	8.9	62	120	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		0.0015		0.0019		ND		ND		NA		ND		ND	
4,4'-DDT	50-29-3	0.0033	1.7	7.9	47	94	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		**0.0063**		**0.0096**		ND		ND		NA		ND		ND	
Endrin	72-20-8	0.014	2.2	11	89	410	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Endosulfan sulfate	1031-07-8	2.4	4.8	24	200	920	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Endrin aldehyde	7421-93-4	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Endosulfan-I	959-98-8	2.4	4.8	24	200	920	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Endosulfan-II	33213-65-9	2.4	4.8	24	200	920	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Heptachlor	76-44-8	--- (0.042)	0.42	2.1	15	29	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Heptachlor epoxide	1024-57-3	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Methoxychlor	72-43-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Endrin ketone	53494-70-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Toxaphene	8001-35-2	---	0	0	0	0	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1016	12674-11-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1221	11104-28-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1232	11141-16-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1242	53469-21-9	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1248	12672-29-6	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1254	11097-69-1	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1260	11096-82-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1268	11100-14-4	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1262	37324-23-5	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1016	12674-11-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1221	11104-28-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1232	11141-16-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1242	53469-21-9	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1248	12672-29-6	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1254	11097-69-1	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1260	11096-82-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1268	11100-14-4	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Aroclor 1262	37324-23-5	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Herbicides																																														
Dalapon	75-99-0	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
Picloram	1918-02-1	#N/A	#N/A	#N/A	#N/A	#N/A	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		ND		ND	
		#N/A	#N/A	#N/A	#N/A	#N/A																																								
Metals																																														
Aluminum	7429-90-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		10200		9070		9450		9230		8080		8680		7540		4460		6090		7430		7500		NA		NA		NA	
Antimony	7440-36-0	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.604		NA		NA			
Arsenic	7440-38-2	13	16	16	16	16	NA		NA		NA		NA		NA		NA		2.7		ND		2.9		2.5		2.1		2.2		3.2		6.5		6.2		3.25		7.87		NA		NA		NA	
Barium	7440-39-3	350	350	400	400	10,000	NA		NA		NA		NA		NA		NA		56		51		55.8		53.1		48.6		51.3		51.9		40.9		53.5		56.9		148		NA		NA		NA	
Beryllium	7440-41-7	7.2	14	72	590	2,700	NA		NA		NA		NA		NA		NA		0.57		0.58		0.98		0.5		0.5		0.52		0.43		0.23		0.28		0.402		0.354		NA		NA		NA	
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	60	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA			
Calcium	7440-70-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		1380		1240		4560		1610		1030		1140		2290		59600		68500		6330	B	11700	B	NA		NA		NA	
Chromium	7440-47-3	---	---	---	---	---	NA		NA		NA		NA		NA		NA		25.9		16.7		34.1		21.3		17.4		17.2		15.3		10		12.8		14.9		21.2		NA		NA		NA	
Cobalt	7440-48-4	---	---	---	---	---	NA		NA		NA		NA		NA		NA		7.4		ND		6.1		ND		5.5		ND		ND		ND		ND		5.74		7.32		NA		NA			
Copper	7440-50-8	50	270	270	270	10,000	NA		NA		NA		NA		NA		NA		18		14.6		21.4		17.7		16.4		16.9		15.2		17.5		17		23.7		39.1		NA		NA		NA	
Iron	7439-89-6	---	---	---	---	---	NA		NA		NA		NA		NA		NA		15600		12100		17000		14100		12900		12900		13800		8450		8000		14600	B	17400	B	NA		NA		NA	
Lead	7439-92-1	63	400	400	1000	3,900	NA		NA		NA		NA		NA		NA		9.1		10.6		13.4		8.2		8.6		8.5		23.1		**122**		**129**		**75.2**		**470**		NA		NA		NA	
Magnesium	7439-95-4	---	---	---	---	---	NA		NA		NA		NA		NA		NA		3420		2350		4220		2780		2500		2540		2760		3150		4560		2960		3190		NA		NA		NA	
Manganese	7439-96-5	1600	2000	2000	10000	10,000	NA		NA		NA		NA		NA		NA		451		348		326		269		271		291		363		161		181		347		382		NA		NA		NA	
Mercury	7439-97-6	0.18	0.81	0.81	2.8	5	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		0.18		**0.2**		ND		ND		NA		NA		NA	
Nickel	7440-02-0	30	140	310	17	10,000	NA		NA		NA		NA		NA		NA		**30.4**		15.5		**41.5**		16.6		15		17.4		17		14.1		14		19.4		27.7		NA		NA		NA	
Potassium	7440-09-7	---	---	---	---	---	NA		NA		NA		NA		NA		NA		2270		1370		1640		1490		1340		1460		1250		1460		1600		1260		1610		NA		NA		NA	
Selenium	7782-49-2	3.9	36	180	1500	6,800	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**4.14**		NA		NA		NA	
Silver	7440-22-4	2	36	180	1500	6,800	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		NA	
Sodium	7440-23-5	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		237		312		NA		NA		NA	
Thallium	7440-28-0	---	---	---	---	---	NA		NA		NA		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA		NA	
Vanadium	7440-62-2	---	---	---	---	---	NA		NA		NA		NA		NA		NA		28.5		17.4		27.6		25.1		20.4		19.9		16.9		13.2		15.3		20.9		29.8		NA		NA		NA	
Zinc	7440-66-6	109	2200	10000	10000	10,000	NA		NA		NA		NA		NA		NA		25		24.8		32		23.2		24.4		24.2		25.1		70.2		86.2		57.2		**129**		NA		NA		NA	
General Chemistry																																														
Solids, Percent		---	---	---	---	---	90.1		92.1		93.1		89.8		89.5		91.6		89.4		90		90.5		90.6		90		90.6		91.3		89		88.9		90.5		88		NA		NA		NA	

NOTES:

1234	Indicates an exceedance of NYSDEC Soil Cleanup Objectives.

J: Estimated Value
ND: Not Detected
NYSDEC Soil Cleanup Objective Tables can be found in Tables 375-6.8(a) and 375-6.8(b) dated 14 December 2006.

FIGURES



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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No.	Figure
508 West 24th Street BLOCK No. 695, LOT No. 44 Manhattan NEW YORK COUNTY NEW YORK	SITE LOCATION PLAN	100242701	1
		Date 4/21/2014	
		Scale 1"=2,000'	
		Drawn By ATR	
		Last Revised 6/11/2014	

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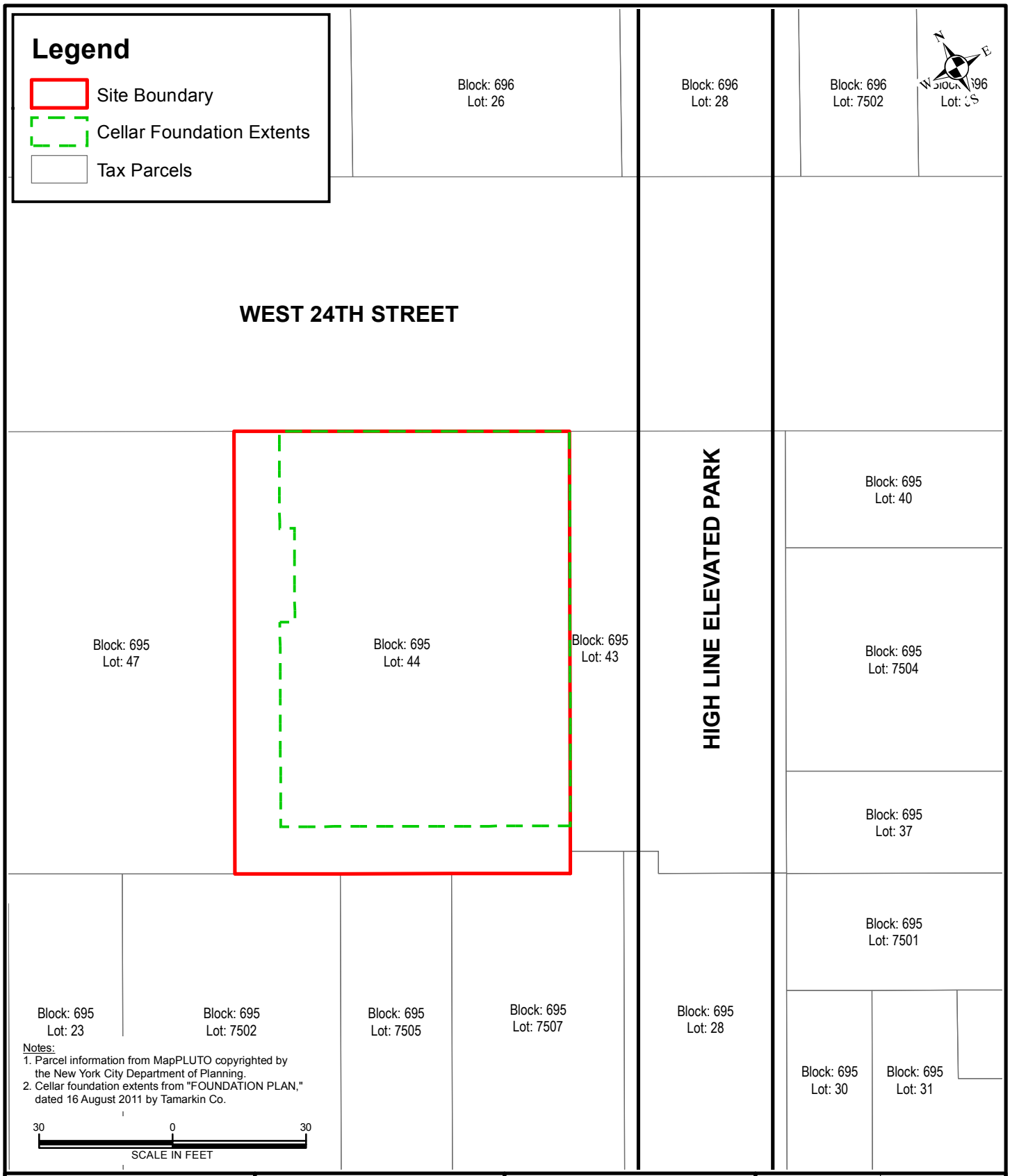
Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\2014-06 - RCR\Figure 1 - Site Location Plan.NY.mxd



Notes:
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2. Cellar foundation extents from "FOUNDATION PLAN," dated 16 August 2011 by Tamarkin Co.

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Project	Drawing Title	Project No.	Figure
508 West 24th Street BLOCK No. 695, LOT No. 44 Manhattan NEW YORK COUNTY NEW YORK	SITE PLAN	100242701	2
		Date 4/21/2014	
		Scale 1"=30'	
		Drawn By ATR	
		Last Revised 6/11/2014	

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Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\2014-06 - RCR\Figure 2 - Site Plan.mxd

Notes:
1. Aerial imagery basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source of aerial imagery is Microsoft from 2011.
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Project
508 West 24th Street
BLOCK No. 695, LOT No. 44
Manhattan
NEW YORK COUNTY NEW YORK

Drawing Title
SURROUNDING PROPERTIES MAP

Project No. 100242701	Figure 3
Date 4/21/2014	
Scale 1"=200'	
Drawn By ATR	
Last Revised 6/11/2014	

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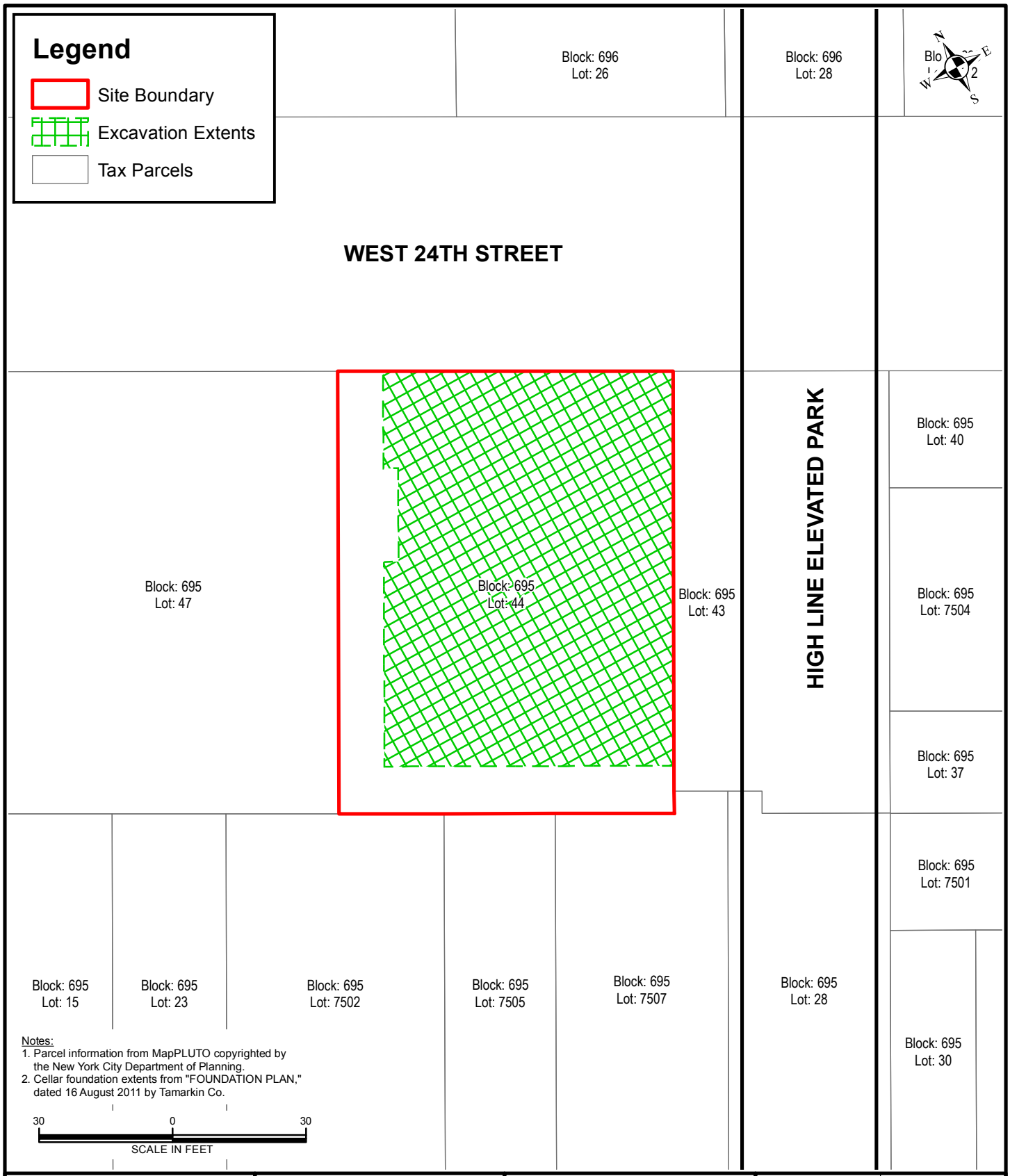

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No.	Figure
508 West 24th Street BLOCK No. 695, LOT No. 44 Manhattan NEW YORK COUNTY NEW YORK	SITE EXCAVATION EXTENTS	100242701	4
		Date 4/21/2014	
		Scale 1"=30'	
		Drawn By ATR	
		Last Revised 6/11/2014	

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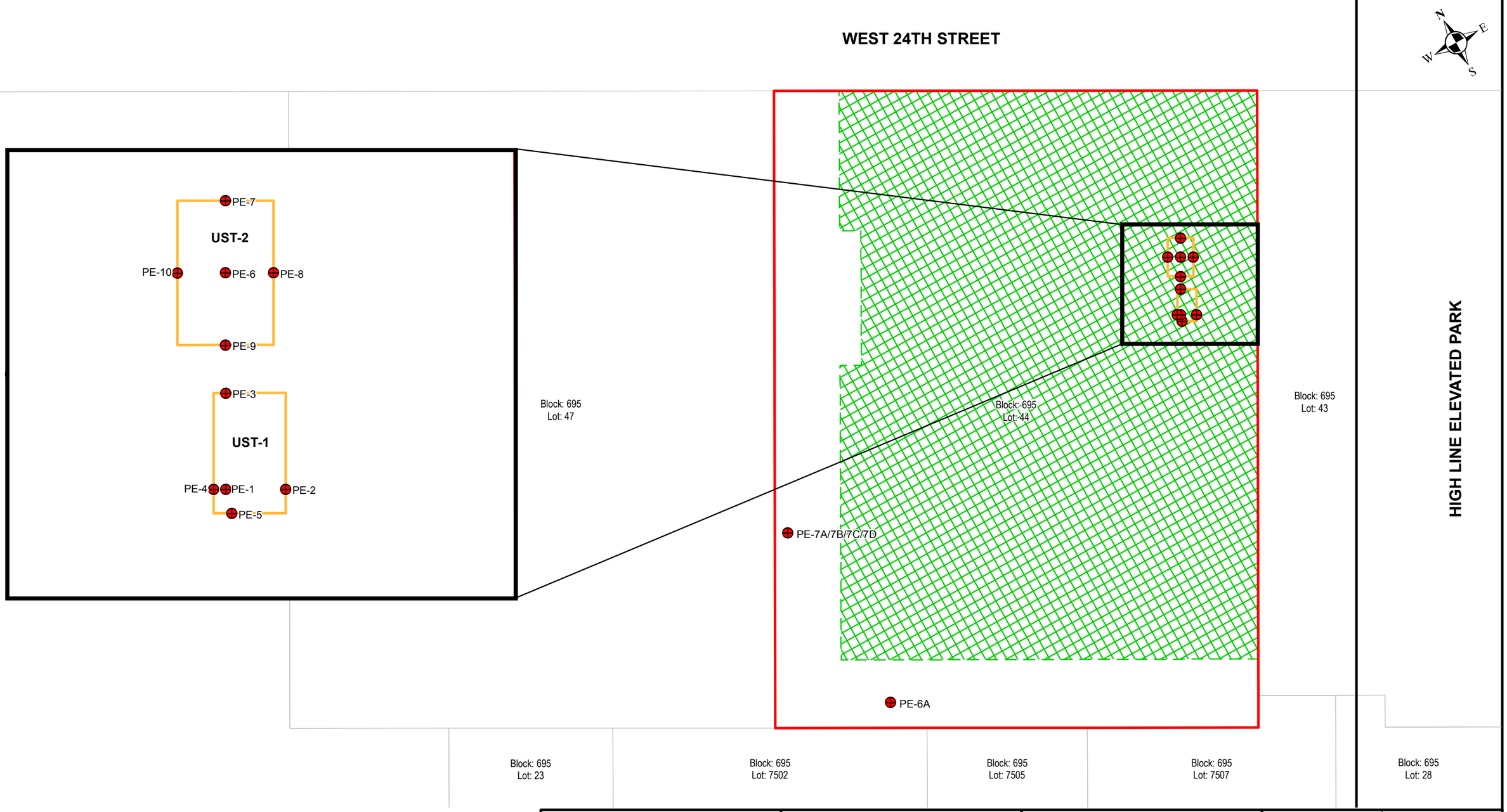
Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\2014-06 - RCR\Figure 4 - Site Excavation Extents.mxd



Legend

- Site Boundary
- Post Excavation Soil Sample Location
- UST
- Excavation Extents

Notes:
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Project
508 West 24th Street
BLOCK No. 695, LOT No. 44
Manhattan
NEW YORK COUNTY NEW YORK

Drawing Title
ENDPOINT SAMPLE LOCATIONS

Project No.	100242701
Date	4/21/2014
Scale	1"=15'
Drawn By	ATR
Last Revised	6/18/2014
Figure	5

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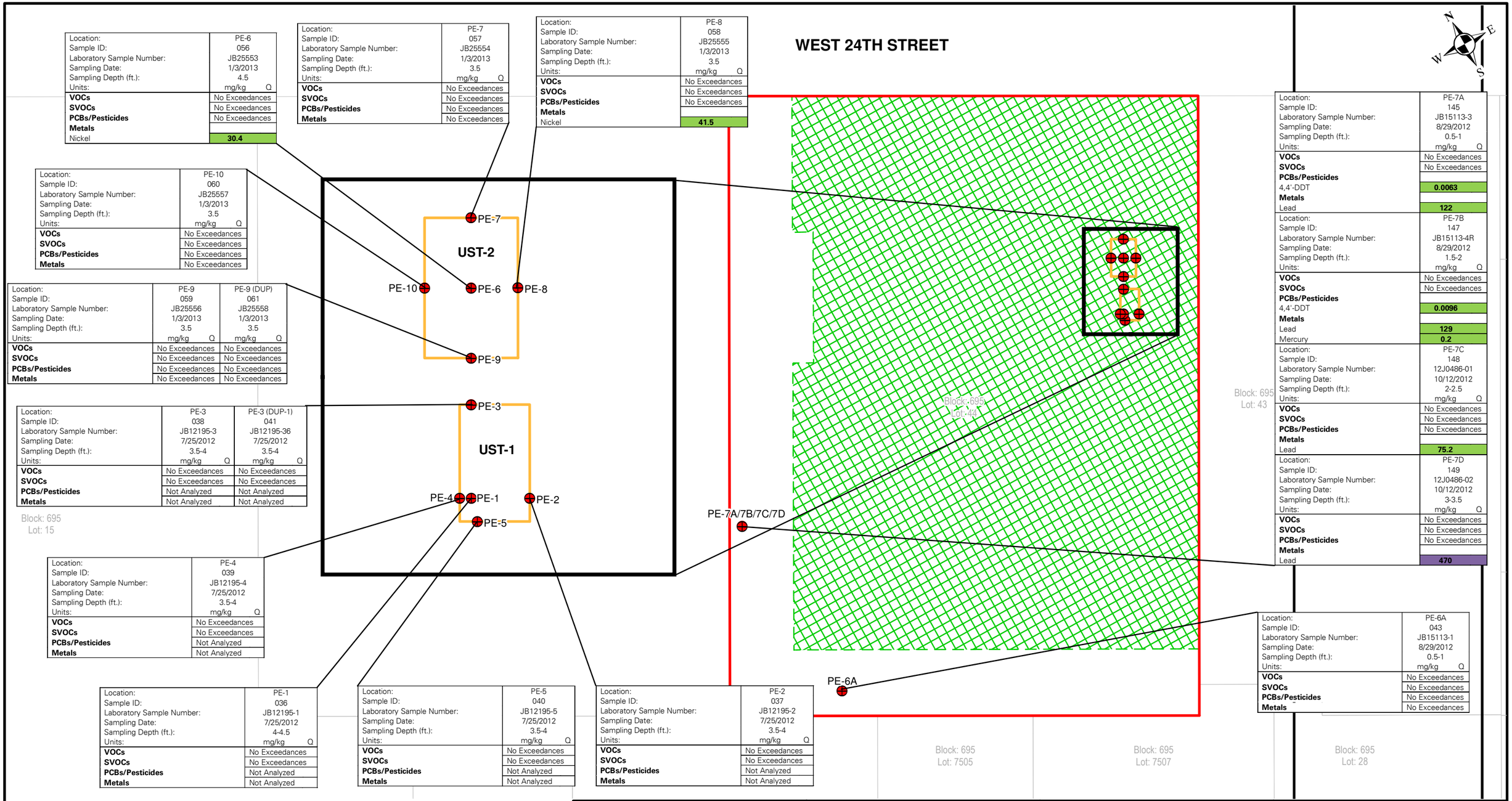
Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\2014-06 - RCR\Figure 5 - Endpoint Sample Locations_11x17.mxd



Location:	PE-6
Sample ID:	056
Laboratory Sample Number:	JB25553
Sampling Date:	1/3/2013
Sampling Depth (ft.):	4.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	
Nickel	**30.4**

Location:	PE-7
Sample ID:	057
Laboratory Sample Number:	JB25554
Sampling Date:	1/3/2013
Sampling Depth (ft.):	3.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	No Exceedances

Location:	PE-8
Sample ID:	058
Laboratory Sample Number:	JB25555
Sampling Date:	1/3/2013
Sampling Depth (ft.):	3.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	
Nickel	**41.5**

Location:	PE-10
Sample ID:	060
Laboratory Sample Number:	JB25557
Sampling Date:	1/3/2013
Sampling Depth (ft.):	3.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	No Exceedances

Location:	PE-9	PE-9 (DUP)
Sample ID:	059	061
Laboratory Sample Number:	JB25556	JB25558
Sampling Date:	1/3/2013	1/3/2013
Sampling Depth (ft.):	3.5	3.5
Units:	mg/kg Q	mg/kg Q
VOCs	No Exceedances	No Exceedances
SVOCs	No Exceedances	No Exceedances
PCBs/Pesticides	No Exceedances	No Exceedances
Metals	No Exceedances	No Exceedances

Location:	PE-3	PE-3 (DUP-1)
Sample ID:	038	041
Laboratory Sample Number:	JB12195-3	JB12195-36
Sampling Date:	7/25/2012	7/25/2012
Sampling Depth (ft.):	3.5-4	3.5-4
Units:	mg/kg Q	mg/kg Q
VOCs	No Exceedances	No Exceedances
SVOCs	No Exceedances	No Exceedances
PCBs/Pesticides	Not Analyzed	Not Analyzed
Metals	Not Analyzed	Not Analyzed

Location:	PE-4
Sample ID:	039
Laboratory Sample Number:	JB12195-4
Sampling Date:	7/25/2012
Sampling Depth (ft.):	3.5-4
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	Not Analyzed
Metals	Not Analyzed

Location:	PE-1
Sample ID:	036
Laboratory Sample Number:	JB12195-1
Sampling Date:	7/25/2012
Sampling Depth (ft.):	4-4.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	Not Analyzed
Metals	Not Analyzed

Location:	PE-5
Sample ID:	040
Laboratory Sample Number:	JB12195-5
Sampling Date:	7/25/2012
Sampling Depth (ft.):	3.5-4
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	Not Analyzed
Metals	Not Analyzed

Location:	PE-2
Sample ID:	037
Laboratory Sample Number:	JB12195-2
Sampling Date:	7/25/2012
Sampling Depth (ft.):	3.5-4
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	Not Analyzed
Metals	Not Analyzed

Location:	PE-7A
Sample ID:	145
Laboratory Sample Number:	JB15113-3
Sampling Date:	8/29/2012
Sampling Depth (ft.):	0.5-1
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	
4,4'-DDT	**0.0063**
Metals	
Lead	**122**

Location:	PE-7B
Sample ID:	147
Laboratory Sample Number:	JB15113-4R
Sampling Date:	8/29/2012
Sampling Depth (ft.):	1.5-2
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	
4,4'-DDT	**0.0096**
Metals	
Lead	**129**
Mercury	**0.2**

Location:	PE-7C
Sample ID:	148
Laboratory Sample Number:	12J0486-01
Sampling Date:	10/12/2012
Sampling Depth (ft.):	2-2.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	
Lead	**75.2**

Location:	PE-7D
Sample ID:	149
Laboratory Sample Number:	12J0486-02
Sampling Date:	10/12/2012
Sampling Depth (ft.):	3-3.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	
Lead	**470**

Location:	PE-6A
Sample ID:	043
Laboratory Sample Number:	JB15113-1
Sampling Date:	8/29/2012
Sampling Depth (ft.):	0.5-1
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
PCBs/Pesticides	No Exceedances
Metals	No Exceedances

Legend

- Site Boundary
- Post Excavation Soil Sample Location
- UST
- Excavation Extents

Notes:
1. Parcel information from MapPLUTO copyrighted by the New York City Department of Planning.
2. Cellar foundation extents from "FOUNDATION PLAN," dated 16 August 2011 by Tamarkin Co.

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
508 West 24th Street
BLOCK No. 695, LOT No. 44
Manhattan
NEW YORK COUNTY NEW YORK

Drawing Title
ENDPOINT SAMPLE ANALYTICAL RESULTS

Project No.	100242701
Date	4/21/2014
Scale	1"=15'
Drawn By	ATR
Last Revised	6/18/2014
Figure	6

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Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\2014-06 - RCR\Figure 6 - End Point Sample Analytical Results.mxd

APPENDIX A

Daily Reports and Community Air Monitoring Results

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Air Monitoring Exceedences

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Amanda Forsburg	CLIENT: Highline West 24th Street, LLC	DATE: 2012-08-13 TIME ONSITE: 0800 TIME OFFSITE: 1410

Morning Weather Conditions:
Time: 0800
Temp: 70 °F Humidity: 71 %
Wind: 6 mph, from E to W

Afternoon Weather Conditions:
Time: ---
Temp: 84 °F Humidity: 37 %
Wind: 7 mph, variable

Background Reading = 4 ug/m^3

Daily Threshold Level = 154 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	0952	0952	217	Excavation	N/A
1	1029	1029	500	Refilling Hole	N/A
1	1041	1041	296	Refilling Hole	N/A
1	1211	1211	217	Unknown	N/A
1	1327	1327	183	Truck Delivery	N/A
1	1352	1352	228	Dumping Sand	N/A
1	1354	1355	258 - 341	Dumping Sand	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:
Use water to suppress dust from excavation activity and equipment movement.

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN
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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Jessica Friscia	CLIENT: Highline West 24th Street, LLC	DATE: 8/12/2012 TIME ONSITE: 0645 TIME OFFSITE: 1400

Morning Weather Conditions:
Time: 0700
Temp: 73 °F Humidity: 73 %
Wind: 3.5 mph, from East to West

Afternoon Weather Conditions:
Time: 1400
Temp: 78.1 °F Humidity: 66 %
Wind: Calm

Background Reading = -

Daily Threshold Level = 150 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	7:13 AM	7:16 AM	155.3 - 753.4	moving demo debris	N/A
1	7:40 AM	7:40 AM	304.5	moving demo debris	N/A
1	8:51 AM	8:51 AM	250.1	jack hammering concrete	N/A
1	9:41 AM	9:41 AM	177.3	truck delivery	N/A
1	10:09 AM	10:09 AM	321.3	moving machinery	N/A
1	1:09 PM	1:09 PM	206.7	loading demo debris into truck	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN
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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Jessica Friscia	CLIENT: Highline West 24th Street, LLC	DATE: 8/15/2012 TIME ONSITE: 0645 TIME OFFSITE: 1400

Morning Weather Conditions:
Time: 0650
Temp: 75 °F Humidity: 82 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1350
Temp: 71.1 °F Humidity: 93 %
Wind: 8.1 mph, from WNW to ESE

Background Reading = -

Daily Threshold Level = 150 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:07 AM	8:07 AM	270	Movement of demo debris	N/A
1	9:16 AM	9:16 AM	355.5	Truck Onsite	N/A
1	9:39 AM	9:39 AM	338.9	Truck Onsite	N/A
1	1:07 PM	1:08 PM	361.9 - 370.6	Unknown	N/A
1	1:35 PM	1:35 PM	159.3	Unknown	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-16-2012 TIME ONSITE: 0645 TIME OFFSITE: 1440

Morning Weather Conditions:
Time: 0700
Temp: 66.9 °F Humidity: 90 %
Wind: 5.8 mph, from East to Northwest

Afternoon Weather Conditions:
Time: 1200
Temp: 80.1°F Humidity: 56 %
Wind: 4.6 mph, Variable

Background Reading = 14.7 ug/m^3

Daily Threshold Level = 160.7 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	0833	0833	494.2	Concrete Hammering	NA
1	1256	1256	252.2	Unknown	NA
1	0834	0834	217	Concrete Hammering	NA
1	1150	1150	183.1	Excavtor Digging Ditch	None Taken
1	1221	1221	173.2	Sheet Driving	None Taken

NOTES:
Weather data is obtained from www.weatherunderground.com

Dust generated from concrete hammering does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-17-2012 TIME ONSITE: 0630 TIME OFFSITE: 1430

Morning Weather Conditions:
Time: 0700
Temp: 73 °F Humidity: 59 %
Wind: 6.9 mph, Variable

Afternoon Weather Conditions:
Time: 1400
Temp: 87.1 °F Humidity: 43 %
Wind: 8.1 mph, West

Background Reading = 31.4 ug/m^3

Daily Threshold Level = 181.4 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	0704	0705	280.5-489.3	Truck Delivery	NA
1	0748	0748	496	Concrete Hammering	NA
1	0750	0752	185.8-199.9	Concrete Hammering	NA
1	0755	0757	244.8-764.6	Concrete Hammering	NA
1	0801	0803	217.7-1872.8	Concrete Hammering	NA
1	0805	0806	407.4-427.1	Concrete Hammering	NA
1	0812	0812	235.9	Concrete Hammering	NA
1	0815	0815	563.4	Concrete Hammering	NA
1	0817	0817	496.8	Concrete Hammering	NA
1	0825	0826	566-603.4	Concrete Hammering	NA
1	0948	0948	259.5	Sheet Driving	Buckets of Water
1	1022	1023	299.1-340.1	Sheet Driving	Buckets of Water
1	1037	1037	221.1	Sheet Driving	Buckets of Water
1	1052	1052	254.4	Spray Paint	NA
1	1101	1101	583.9	Spray Paint	NA

NOTES:
Weather data is obtained from www.weatherunderground.com

Dust generated from concrete hammering and spray paint does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-20-2012 TIME ONSITE: 0630 TIME OFFSITE: 1440

Morning Weather Conditions:
Time: 0700
Temp: 66 °F Humidity: 75 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1400
Temp: 77 °F Humidity: 48 %
Wind: 3.5 mph, variable

Background Reading = 12.2 ug/m^3

Daily Threshold Level = 162.2 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No recorded Exceendences*				

NOTES:
Weather data is obtained from www.weatherunderground.com
* The datalogging function on the DR-4 was disabled. There is no logged data, though field monitoring data was collected.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-21-2012 TIME ONSITE: 0640 TIME OFFSITE: 1445

Morning Weather Conditions:
Time: 0700
Temp: 66 °F Humidity: 78 %
Wind: calm

Afternoon Weather Conditions:
Time: 1400
Temp: 79 °F Humidity: 40 %
Wind: 3.5 mph, variable direction

Background Reading = 12.7 ug/m^3

Daily Threshold Level = 162.7 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	0920	0921	270.8-310.7	Welding Smoke	NA
1	0923	0923	231.9	Welding Smoke	NA
1	0933	0933	168.1	Welding Smoke	NA
1	0935	0935	253.8	Welding Smoke	NA
1	0948	0948	225.1	Welding Smoke	NA
1	1011	1012	326-436.8	Welding Smoke	NA
1	1031	1031	189.1	Welding Smoke	NA
1	1130	1130	171.9-175.2	Welding Smoke	NA
1	1142	1143	177.7	Welding Smoke	NA
1	1144	1144	271.5	Welding Smoke	NA
1	1147	1147	267	Welding Smoke	NA
1	1212	1212	167.9	Welding Smoke	NA
1	1254	1254	230.6	Welding Smoke	NA

NOTES:
Weather data is obtained from www.weatherunderground.com

Dust generated welding smoke does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-22-2012 TIME ONSITE: 0650 TIME OFFSITE:1450

Morning Weather Conditions:
Time: 0800
Temp: 70 °F Humidity: 87 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1450
Temp: 78.1 °F Humidity: 56 %
Wind: 3.5 mph, Variable

Background Reading = 36.4 ug/m^3

Daily Threshold Level = 186.4 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	736	736	269.2	Welding Smoke	N/A
1	745	745	2363	Welding Smoke	N/A
1	946	946	208.3	Welding Smoke	N/A
1	1024	1024	278.3	Welding Smoke	N/A
1	1242	1242	208.3	Welding Smoke	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com
Dust generated from welding smoke does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-23-2012 TIME ONSITE: 0635 TIME OFFSITE: 1430

Morning Weather Conditions:
Time: 0700
Temp: 69.1 °F Humidity: 84 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1400
Temp: 81 °F Humidity: 49 %
Wind: 4.6 mph, Variable

Background Reading = 35.8 ug/m^3

Daily Threshold Level = 185.8 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No Exceendances				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 08-29-2012 TIME ONSITE: 0635 TIME OFFSITE: 1520

Morning Weather Conditions:
Time: 0700
Temp: 66.9 °F Humidity: 63 %
Wind: 8.1 mph, to Northeast

Afternoon Weather Conditions:
Time: 1500
Temp: 78.1 °F Humidity: 35 %
Wind: 6.9 mph, Variable Direction

Background Reading = 6.7 ug/m^3

Daily Threshold Level = 156.7 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1104	1104	177.3	Truck's air-brake onsite	None

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.:	100242701	CLIENT: Highline West 24th Street, LLC	DATE: 30-Aug-12
PROJECT:	508 W 24th Street		TIME ONSITE: 7:00 AM
LOCATION:	New York, NY		TIME OFFSITE: 3:15 PM
PERSONNEL:	Chintan A Brahmbhatt		

Morning Weather Conditions:
Time: 0651
Temp: 62.1 °F Humidity: 72%
Wind: 4.6 mph, from W to NW

Afternoon Weather Conditions:
Time: 1451
Temp: 82 °F Humidity: 25 %
Wind: Calm

Background Reading = 17 ug/m^3

Daily Threshold Level = 167.0 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	10:35	10:35	1446.9	Truck Air Brakes	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 08-31-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0700
Temp: 71.1 °F Humidity: 65 %
Wind: 4.6 mph, Variable

Afternoon Weather Conditions:
Time: 1451
Temp: 90 °F Humidity: 27 %
Wind: 6.5 mph, from West

Background Reading = 18.5 ug/m^3

Daily Threshold Level = 168.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No Exceendances				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-04-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 70.0 °F Humidity: 100 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1451
Temp: 75.9 °F Humidity: 87 %
Wind: 5.8 mph, Variable

Background Reading = 18.5 ug/m^3

Daily Threshold Level = 118.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	10:51:14 AM	10:53:14 AM	228.8 - 422	an excavator's exhaust	informed the operator
2	11:10:14 AM	11:11:14 AM	139.4	Pick up truck	informed the operator

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-05-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 75.9 °F Humidity: 91 %
Wind: 5.8 mph, Variable

Afternoon Weather Conditions:
Time: 1451
Temp: 77.0 °F Humidity: 76 %
Wind: 6.9 mph, Variable

Background Reading = 48.4 ug/m^3

Daily Threshold Level = 148.4 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	11:28:43 AM	11:30:43 AM	153.7 - 169	pick up truck came onsite and was parked near AM station	-
2	9:58:43 AM	9:59:43 AM	161.9	unknown	-

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-06-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 69.1 °F Humidity: 84 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1451
Temp: 79.0 °F Humidity: 66 %
Wind: Calm

Background Reading = 19.5 ug/m^3

Daily Threshold Level = 119.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No Exceedances				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-07-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0751
Temp: 73.9 °F Humidity: 82 %
Wind: 3.5 mph , from West Northwest

Afternoon Weather Conditions:
Time: 1451
Temp: 86.0 °F Humidity: 59 %
Wind: 46 mph, variable

Background Reading = 18.5 ug/m^3

Daily Threshold Level = 168.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:39:51 AM	8:47:51 AM	145.1 - 1137.9	Saw cut concrete sidewalk	added more water to supress dust

NOTES:
Weather data is obtained from www.weatherunderground.com

Dust generated from sawcutting concrete does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-10-2012 TIME ONSITE: 0700 TIME OFFSITE: 1700

Morning Weather Conditions:
Time: 0651
Temp: 59.0 °F Humidity: 69 %
Wind: 4.6 mph , Variable

Afternoon Weather Conditions:
Time: 1651
Temp: 69.1 °F Humidity: 38 %
Wind: 6.9 mph, variable

Background Reading = ---

Daily Threshold Level = 100 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	10:18:53 AM	10:19:53 AM	127.4-233.9	Saw cut concrete obstruction along western property line.	N/A
1	10:25:53 AM	10:26:53 AM	161.7-190.8		
1	10:43:53 AM	10:44:53 AM	343.5		
1	10:45:53 AM	10:47:53 AM	142-164.8		
1	10:50:53 AM	10:51:53 AM	132.7		
1	10:53:53 AM	10:54:53 AM	134-252.2		
1	10:57:53 AM	10:58:53 AM	162.9		
1	10:59:53 AM	11:00:53 AM	158.9		
1	12:21:53 PM	12:24:53 PM	202.9-437		
1	12:32:53 PM	12:50:53 PM	125.7-3539.2		
1	2:10:53 PM	2:11:53 PM	113.4		
1	2:59:53 PM	3:01:53 PM	139.5-448.8		
1	3:13:53 PM	3:15:53 PM	156.6-327.7		

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

Dust generated from sawcutting concrete does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-11-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 55.0 °F Humidity: 67 %
Wind: 3.5 mph , variable

Afternoon Weather Conditions:
Time: 1551
Temp: 71.1 °F Humidity: 34 %
Wind: 3.5 mph, variable

Background Reading = 45 ug/m^3

Daily Threshold Level = 145 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:22:32 AM	8:23:32 AM	161.8	diesel truck exhaust	Intercoastal's diesel powered truck that was parked near AMS started and blew exhaust towards the AMS . The driver was advised to park the truck away from the AMS.

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

Dust generated from truck exhaust does not involve soil movement and therefore is not related to the remedial action.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-12-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 59.0 °F Humidity: 78 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1451
Temp: 80.1 °F Humidity: 34 %
Wind: 5.8 mph, Variable

Background Reading = 22.5 ug/m^3

Daily Threshold Level = 122.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	2:32:42 PM	2:33:42 PM	191.5	Dropping wooden planks on ground	worker was made aware of the AMS and advised to stay away from it
1	3:00:42 PM	3:01:42 PM	219	Unknown	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-13-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 63.0 °F Humidity: 75 %
Wind: 3.5 mph, variable

Afternoon Weather Conditions:
Time: 1551
Temp: 77 °F Humidity: 48 %
Wind: 5.8 mph, from North

Background Reading = 38.8 ug/m^3

Daily Threshold Level = 138.8 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
	No Exceedence				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-14-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 64.0 °F Humidity: 84%
Wind: Calm

Afternoon Weather Conditions:
Time: 1451
Temp: 78.8 °F Humidity: 42 %
Wind: 4.6 mph, Variable

Background Reading = 25 ug/m^3

Daily Threshold Level = 125 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	11:23:07 AM	11:24:07 AM	147.1	wood cutting near A.M.S.	Carpenter was made aware of the A.M.S. and was asked to cut the wood away from the A.M.S.
1	1:40:07 PM	1:41:07 PM	208	Unknown	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-24-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 53.1 °F Humidity: 74%
Wind: 4.6 mph, from West - Northwest

Afternoon Weather Conditions:
Time: 1451
Temp: 64.9 °F Humidity: 34 %
Wind: 9.2 mph, from West

Background Reading = 37.9 ug/m^3

Daily Threshold Level = 137.9 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1:43:31 PM	1:44:31 PM	253.6	Unknown	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Chintan A Brahmbhatt	CLIENT: Highline West 24th Street, LLC	DATE: 09-25-2012 TIME ONSITE: 0700 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 55.0 °F Humidity: 62%
Wind: 3.5 mph, Variable

Afternoon Weather Conditions:
Time: 1551
Temp: 72.0 °F Humidity: 41 %
Wind: 10.4 mph, from West Southwest

Background Reading = 36 ug/m^3

Daily Threshold Level = 136 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
			No Exceedences		

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 10-1-2010 TIME ONSITE: 0645 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0700
Temp: 53.1 °F Humidity: 74 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1530
Temp: 70 °F Humidity: 47 %
Wind: 5.8 mph in Variable Directions

Background Reading = 10.5 ug/m^3

Daily Threshold Level = 110.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1235	1235	150	Worker Sweeping Previous Dust off Truck[2]	N/A
1	1224	1224	126.3	Worker Sweeping Previous Dust off Truck[2]	N/A
1	1237	1237	111.2	Worker Sweeping Previous Dust off Truck[2]	N/A

NOTES:
1. Weather data is obtained from www.weatherunderground.com
2. Dust swept from truck onsite, was brought onto the site with the truck and excvator. Not attributed to the contaminated fill onsite.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped and dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 02-10-2012 TIME ONSITE: 0650 TIME OFFSITE: 1330

Morning Weather Conditions:
Time: 0700
Temp: 63 °F Humidity: 67 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1330
Temp: 62.1 °F Humidity: 93 %
Wind: 5.8 mph, from East to Southeast

Background Reading = 2.5 ug/m^3

Daily Threshold Level = 102.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 10-10-2012 TIME ONSITE: 0705 TIME OFFSITE: 1511

Morning Weather Conditions:
Time: 0700
Temp: 53.1 °F Humidity: 96 %
Wind: 5.8 mph, in Variable Directions

Afternoon Weather Conditions:
Time: 1500
Temp: 64.9 °F Humidity: 63 %
Wind: 5.8 mph, in Variable Directions

Background Reading = 0.0 ug/m^3

Daily Threshold Level = 100.0 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No exceendences				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 11-10-2012 TIME ONSITE: 0635 TIME OFFSITE: 1457

Morning Weather Conditions:
Time: 0700
Temp: 46.9 °F Humidity: 71 %
Wind: 6.9 mph, in Variable Directions

Afternoon Weather Conditions:
Time: 1500
Temp: 57.9 °F Humidity: 37 %
Wind: Calm

Background Reading = 63.1 ug/m^3

Daily Threshold Level = 163.1 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 12OCT12 TIME ONSITE: 0635 TIME OFFSITE:

Morning Weather Conditions:
Time: 0800
Temp: 45 °F Humidity: 71 %
Wind: 7 mph West

Afternoon Weather Conditions:
Time: 1500
Temp: 65.1°F Humidity: 35 %
Wind: Calm

Background Reading = 17.0 ug/m^3

Daily Threshold Level = 117.0 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	No exceedances				

NOTES:
Weather data is obtained from www.weatherunderground.com

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 15-10-2012 TIME ONSITE: 0645 TIME OFFSITE: 1515

Morning Weather Conditions:
Time: 0700
Temp: 64 °F Humidity: 81 %
Wind: Neglible wind speed to the North

Afternoon Weather Conditions:
Time: 1500
Temp: 69.1 °F Humidity: 73 %
Wind: 8.1 mph, to the Southwest

Background Reading = 49.8 ug/m^3

Daily Threshold Level = 149.8 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1310	1310	316.8	Uknown	N/A
1	1346	1346	151.2	Movement of Concrete Blocks	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped and dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL:	CLIENT: Highline West 24th Street, LLC	DATE: 2012-10-24 TIME ONSITE: 0840 TIME OFFSITE: 1515

Morning Weather Conditions:
Time: 0900
Temp: 55.9 °F Humidity: 93 %
Wind: Calm

Afternoon Weather Conditions:
Time: 1500
Temp: 57.9 °F Humidity: 81 %
Wind: 8.1 mph, from East to Northeast

Background Reading = 48.7 ug/m^3

Daily Threshold Level = 148.7 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1134	1134	212.8	Exhaust from Grout Hopper	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN
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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2012-12- 05 TIME ONSITE: 06:50 TIME OFFSITE: 12:19

Morning Weather Conditions:
Time: 07:03
Temp: 53° F Humidity: 74%
Wind: 12 mph NW

Afternoon Weather Conditions:
Time: 12:04
Temp: 52° F Humidity: 49%
Wind: 16 mph NW

Background Reading = 2.5 ug/m^3

Daily Threshold Level = 102.5 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	7:54:30	7:55:30	167.9-173.5	Excavation in EA-1 near AMS	N/A

NOTES:
Weather data is obtained from weather.com.

Dust exceedance due to breaking up concrete occurred but are not reported on this form as they are not related to the remedial action.

Per technician at Pine Environmental, if humidity is above 50%, should increase action level by 50-100 ug/m3.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th LOCATION: New York, NY PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2012-12-06 TIME ONSITE: 06:55 TIME OFFSITE: 15:20

Morning Weather Conditions:
Time: 07:03
Temp: 30°F Humidity: 44%
Wind: 11 mph NNW

Afternoon Weather Conditions:
Time: 15:03
Temp: 40°F Humidity: 36%
Wind: Calm

Background Reading = --- ug/m^3

Daily Threshold Level = 100 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:29:07	8:30:07	145.1-154.2	Excavator digging in EA-1 near AMS	N/A
1	8:37:07	8:37:07	244.9	Excavator digging in EA-1 near AMS	N/A
1	8:41:07	8:41:07	172.6	Excavator loads truck from EA-1/EA-3/EA-5 near AMS	N/A
1	8:46:07	8:46:07	103.1	Excavator loads truck from EA-1/EA-3/EA-5 near AMS	N/A
1	8:48:07	8:48:07	101	Excavator loads truck from EA-1/EA-3/EA-5 near AMS	N/A
1	8:50:07	8:51:07	142.3-147.8	Excavator loads truck from EA-1/EA-3/EA-5 near AMS	N/A
1	9:00:07	9:00:07	121.4	Excavator moves soil	N/A

NOTES:
Weather data is obtained from weather.com.

Dust exceedance due to hot work (welding/grinding) on the sheetpiles or breaking up concrete occurred but are not reported on this form as they are not related to the remedial action.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2012-12-07 TIME ONSITE: 07:05 TIME OFFSITE: 13:50

Morning Weather Conditions:
Time: 07:03
Temp: 39 °F Humidity: 70%
Wind: 1 mph WSW

Afternoon Weather Conditions:
Time: 15:03
Temp: 45 °F Humidity: 82 %
Wind: 7 mph S

Background Reading = --- ug/m^3

Daily Threshold Level = 100.0 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	12:44:34	12:44:34	104.6	Excavator loads truck from EA-1/EA-3	N/A
1	12:46:34	12:46:34	101.3	Excavator loads truck from EA-1/EA-3	N/A
1	12:54:34	12:55:34	101.1-126.4	Excavator loads truck from EA-1/EA-3	N/A

NOTES:
Weather data is obtained from weather.com.

Dust exceedance due to hot work (welding/grinding) on the sheetpiles or breaking up concrete occurred but are not reported on this form as they are not related to the remedial action.

Per technician at Pine Environmental, if humidity is above 50%, should increase action level by 50-100 ug/m3.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT 100242701 PROJECT: 508 W 24th LOCATION: New York, PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2012-12-10 TIME ONSITE: 06:50 TIME OFFSITE: 15:05

Morning Weather Conditions:
Time: 07:03
Temp: 50 °F Humidity: 96%
Wind: 2 mph S

Afternoon Weather Conditions:
Time: 15:03
Temp: 58 °F Humidity: 97%
Wind: 5 mph SSW

Background Reading = 30.1 ug/m^3

Daily Threshold Level = 130.1 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:24:23	8:24:23	141.8	Soil movement in EA-2	N/A
1	8:35:23	8:37:23	142.8-180.3	Excavator loads truck, Concrete cutting EA-4/EA-6, Hot work EA-1	N/A
1	8:44:23	8:47:23	145.8-413.5	Excavator loads truck, Hot work in EA-1	N/A
1	8:49:23	8:51:23	188.4-333.4	Excavator loads truck, Concrete cutting EA-4/EA-6, Hot work EA-1	N/A
1	8:54:23	8:54:23	152.4	Excavator loads truck, Concrete cutting EA-4/EA-6, Hot work EA-1	N/A
1	8:56:23	8:58:23	136.9-210.5	Excavator loads truck, Concrete cutting EA-4/EA-6, Hot work EA-1	N/A
1	10:33:23	10:37:23	131.8-201.8	Excavation in EA-4/EA-6	N/A
1	10:53:23	10:53:23	130.6	Excavation in EA-1/EA-3	N/A

NOTES:
Weather data is obtained from weather.com.

Dust exceedance due exclusively to hot work (welding/grinding) on sheetpiles or breaking up concrete occurred but are not reported on this form as they are not related to the remedial action. Hot work and breaking up concrete generates a lot of dust/smoke, so dust exceedances occurring when either of the two activities are ongoing may not be caused by remedial activities.

Per technician at Pine Environmental, if humidity is above 50%, should increase action level by 50-100 ug/m3.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th LOCATION: New York, NY PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2012-12-11 TIME ONSITE: 06:45 TIME OFFSITE: 14:30

Morning Weather Conditions:
Time: 07:03
Temp: 43 °F Humidity: 80 %
Wind: 12 mph WNW

Afternoon Weather Conditions:
Time: 14:03
Temp: 47 °F Humidity: 52 %
Wind: 10 mph NW

Background Reading = 4.4 ug/m^3

Daily Threshold Level = 104.4 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	8:11:28	8:11:28	134.3	Excavation loads truck from EA-4/EA-6	N/A
1	8:17:28	8:17:28	105.9	Excavation loads truck from EA-4/EA-6	N/A
1	8:40:28	8:40:28	108.5	Excavator loads truck, Concrete cutting EA-4/EA-6	N/A
1	8:42:28	8:42:28	239.3	Excavator loads truck, Concrete cutting EA-4/EA-6	N/A
1	8:44:28	8:46:28	126.9-176.4	Excavator loads truck, Concrete cutting EA-4/EA-6	N/A

NOTES:
Weather data is obtained from weather.com.

Dust exceedance due exclusively to hot work (welding/grinding) on sheetpiles or breaking up concrete occurred but are not reported on this form as they are not related to the remedial action. Hot work and breaking up concrete generates a lot of dust/smoke, so dust exceedances occurring when either of the two activities are ongoing may not be caused by remedial activities.

Per technician at Pine Environmental, if humidity is above 50%, should increase action level by 50-100 ug/m3.

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

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AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 2JAN12 TIME ONSITE:0655 TIME OFFSITE: 1615

Morning Weather Conditions:
Time: 0800
Temp: 22°F Humidity: 45 %
Wind: 10 mph, from NW to SE

Afternoon Weather Conditions:
Time: 1600
Temp: 28 °F Humidity: 45 %
Wind: 4.7 mph, from NW to SE

Background Reading = 15.1 ug/m^3

Daily Threshold Level = 165.1 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
NO EXCEEDANCES					

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 3JAN13 TIME ONSITE: 0700 TIME OFFSITE:1545

Morning Weather Conditions:
Time: 0700
Temp: 21 °F Humidity: 66%
Wind: 5.8 mph, from N to SW

Afternoon Weather Conditions:
Time: 1450
Temp: 34 °F Humidity: 47%
Wind: 3.7 mph, from NE to SW

Background Reading = 8.4 ug/m^3

Daily Threshold Level = 158.4 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
NO EXCEEDANCES					

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 4JAN2013 TIME ONSITE: 0700 TIME OFFSITE:1600

Morning Weather Conditions:
Time: 0700
Temp: 35 °F Humidity: 62%
Wind: 3.2 mph, from SE to NW

Afternoon Weather Conditions:
Time: 1424
Temp: 40 °F Humidity: 50%
Wind: 9.4 mph, from SW to NE

Background Reading = 9.7 ug/m^3

Daily Threshold Level = 159.7 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
NO EXCEEDANCES					

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: LindsayDeckard	CLIENT: Highline West 24th Street, LLC	DATE: 2013-1-9 TIME ONSITE: 0700 TIME OFFSITE: 1600

Morning Weather Conditions:
Time: 0700
Temp: 40°F Humidity: 79%
Wind: 3.7 mph, from SW to NE

Afternoon Weather Conditions:
Time: 1200
Temp: 49°F Humidity: 60%
Wind: 6.3 mph, from SW to NE

Background Reading = 30.1 ug/m^3

Daily Threshold Level = 180.1 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
1	1304	1304	772.4	Hotwork (<8' from AMS)	Water

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 1/23/2013 TIME ONSITE: 800 TIME OFFSITE: 1600	

Morning Weather Conditions:
Time: 0800
Temp: 11 °F Humidity: 42 %
Wind: 8 mph, from NW to E

Afternoon Weather Conditions:
Time: 1600
Temp: 20 °F Humidity: 42 %
Wind: 8 mph, from W to E

Background Reading = 0.0 ug/m^3

Daily Threshold Level = 150 ug/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (ug/m^3)	Source	Corrective Action
No exceedances*					

NOTES:
* See Field Book #3 for air monitoring records. DR-4 data could not be uploaded.
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE:24JAN13 TIME ONSITE:0700 TIME OFFSITE:1605

Morning Weather Conditions:
Time: 0730
Temp: 14 °F Humidity: 67 %
Wind: 4.7 mph, from NW to SE

Afternoon Weather Conditions:
Time: 1215
Temp: 23 °F Humidity: 33 %
Wind: 11.9 mph, from E to W

Background Reading = 6.7 $\mu g/m^3$

Daily Threshold Level = 156.7 $\mu g/m^3$

Exceedance(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
No exceedances.					

NOTES:
DR-4 device read failure, source 1. Re-zeroed and reinitialized run but failure remained. DR-4 data is from source 2 only.
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE:25JAN13 TIME ONSITE: 0700 TIME OFFSITE:1520

Morning Weather Conditions:
Time: 0700
Temp: 15°F Humidity: 60%
Wind: 5.8 mph, from NW to SE

Afternoon Weather Conditions:
Time: 0200
Temp: 25°F Humidity: 44%
Wind: 5.3 mph, from NW to SE

Background Reading = 17.4 µg/m^3

Daily Threshold Level = 167.4 µg/m3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (µg/m^3)	Source	Corrective Action
No exceedances.					

NOTES:
DR-4 device read failure, source 1. Re-zeroed and reinitialized run but failure remained. DR-4 data is from source 2 only.
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL:	CLIENT: Highline West 24th Street, LLC	DATE: 2013-02-06 TIME ONSITE: 0640 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0651
Temp: 32 °F Humidity: 82%
Wind: 3.5 mph, variable

Afternoon Weather Conditions:
Time: 1451
Temp: 39 °F Humidity: 41%
Wind: negligible

Background Reading = 56.0 $\mu g/m^3$

Daily Threshold Level = 156.0 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	7:49:02	7:53:02	167.3-460.6	Excavator loads truck, Hot work in EA-1	N/A
1	8:03:02	8:08:02	216.6-461.6	Excavator loads truck, Hot work in EA-1	N/A
1	8:10:02	8:11:02	168.3-173.6	Excavator loads truck, Hot work in EA-1	N/A
1	8:21:02	8:23:02	169.2-287.1	Excavator loads truck, Hot work in EA-3	N/A
1	8:38:02	8:42:02	228.2-406.8	Excavator loads truck, Hot work in EA-3	N/A
1	8:48:02	8:49:02	207.7-304.9	Excavator loads truck, Hot work in EA-3	N/A
1	9:58:35	9:58:35	176.6	Excavator loads truck, Hot work in EA-3/4	N/A
1	10:01:35	10:01:35	172.6	Excavator loads truck, Hot work in EA-3/4	N/A
1	10:05:35	10:05:35	177.5	Excavator loads truck, Hot work in EA-3/4	N/A
1	10:08:35	10:08:35	198.9	Excavator loads truck, Hot work in EA-3/4	N/A
1	10:18:35	10:18:35	371.6	Excavator loads truck, Hot work in EA-1/3	N/A
1	10:20:35	10:20:35	248.7	Excavator loads truck, Hot work in EA-1/3	N/A
1	10:23:35	10:23:35	200.4	Soil movement in EA-2, Hot work in EA-1/3	N/A
1	10:25:35	10:25:35	258.4	Soil movement in EA-2, Hot work in EA-1/3	N/A
1	10:46:40	10:46:40	222	Soil movement in EA-2, Hot work in EA-1	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL:	CLIENT: Highline West 24th Street, LLC	DATE: 2013-02-08 TIME ONSITE: 0650 TIME OFFSITE: 1030

Morning Weather Conditions:
Time: 0650
Temp: 32 °F Humidity: 85%
Wind: 13.8 mph, from East to Northea

Afternoon Weather Conditions:
Time: 1000
Temp: 34 °F Humidity: 89 %
Wind: 18.4 mph, from East to Northeast

Background Reading = 10.6 $\mu g/m^3$

Daily Threshold Level = 110.6 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Stephanie Frank	CLIENT: Highline West 24th Street, LLC	DATE: 2013-03-28 TIME ONSITE: 0710 TIME OFFSITE: 1135

Morning Weather Conditions:
Time: 0751
Temp: 38 °F Humidity: 68%
Wind: 6.9 mph, NW

Afternoon Weather Conditions:
Time: 1051
Temp: 47 °F Humidity: 42%
Wind: 6.9 mph, variable

Background Reading = 13.9 µg/m^3

Daily Threshold Level = 163.9 µg/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (µg/m^3)	Source	Corrective Action
1	9:06:12	9:06:12	1147.2	Excavator digging in EA-6	N/A
1	10:20:12	10:20:12	2464.5	Excavator digging in EA-6	N/A

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Jessica Friscia	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-02 TIME ONSITE: 1000 (no air monitoring until 1300) TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 1300
Temp: 39 °F Humidity: 29%
Wind: 15 mph, from SE to NW

Afternoon Weather Conditions:
Time: 1500
Temp: 42°F Humidity: 26%
Wind: 11.5 mph, from SE to NW

Background Reading = 7.3 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-03 TIME ONSITE: 0700 TIME OFFSITE: 1430

Morning Weather Conditions:
Time: 0700
Temp: 30 °F Humidity: 85%
Wind: 12.0 mph, from Northwest to Sc

Afternoon Weather Conditions:
Time: 1300
Temp: 45°F Humidity: 30 %
Wind: 8.0 mph, from North to South

Background Reading = 12.5 µg/m^3

Daily Threshold Level = 112.5 µg/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (µg/m^3)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-04 TIME ONSITE: 0700 TIME OFFSITE: 1515

Morning Weather Conditions:
Time: 0700
Temp: 33 °F Humidity: 48%
Wind: 0.0 mph

Afternoon Weather Conditions:
Time: 1300
Temp: 45 °F Humidity: 30 %
Wind: 8.0 mph, from north to south

Background Reading = 16.4 $\mu g/m^3$

Daily Threshold Level = 116.4 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-05 TIME ONSITE: 0705 TIME OFFSITE: 1528

Morning Weather Conditions:
Time: 0715
Temp: 42 °F Humidity: 55%
Wind: 0 mph

Afternoon Weather Conditions:
Time: 1445
Temp: 59°F Humidity: 17 %
Wind: 6.0 mph, from North to South

Background Reading = 22.2 $\mu g/m^3$

Daily Threshold Level = 122.2 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL:	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-08 TIME ONSITE: 0700 TIME OFFSITE: 1600

Morning Weather Conditions:
Time: 0700
Temp: °F Humidity: %
Wind:

Afternoon Weather Conditions:
Time: 1600
Temp: °F Humidity: %
Wind:

Background Reading = 36.5 µg/m^3

Daily Threshold Level = 136.5 µg/m^3

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range (µg/m^3)	Source	Corrective Action
1	1400	1400	149.6	Unknown	None Taken
0:00	1434	1434	143.5	Unknown	None Taken

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Christine B. Madsen	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-09 TIME ONSITE: 0645 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0700
Temp: °F Humidity: %
Wind:

Afternoon Weather Conditions:
Time: 1530
Temp: °F Humidity: %
Wind:

Background Reading = 50.1 $\mu g/m^3$

Daily Threshold Level = 150.1 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	1248	1320	165.5-6,424.9	Sweeping Concrete dust near AMS	None Taken
1	911	912	171-209.2	Unknown; but no earthwork during time	None Taken
1	0950	0950	166.2	Hot Work	None Taken
1	1420	1421	156.2-234	Unknown; but no earthwork during time	

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline 508 West 24th Street, LLC	DATE: 2013-04-11 TIME ONSITE: 0720 TIME OFFSITE: 1515

Morning Weather Conditions:
Time: 0900
Temp: 54 °F Humidity: 77%
Wind: 8.0 mph, from northeast to southwest

Afternoon Weather Conditions:
Time: 1330
Temp: 60 °F Humidity: 73%
Wind: 3.7 mph, from southeast to northwest

Background Reading = 5.8 $\mu g/m^3$

Daily Threshold Level = 105.8 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W. 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline 508 West 24th Street, LLC	DATE: 2013-04-12 TIME ONSITE: 0700 TIME OFFSITE: 1245

Morning Weather Conditions:
Time: 0730
Temp: 46° F Humidity: 83%
Wind: 3.7 mph, from west to east

Afternoon Weather Conditions:
Time: 1230
Temp: 45° F Humidity: 92%
Wind: 2.7 mph, from east to west

Background Reading = 11.2 $\mu g/m^3$

Daily Threshold Level = 111.2 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

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LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Jessica Friscia	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-15 TIME ONSITE: 0650 TIME OFFSITE: 1340

Morning Weather Conditions:
Time: 0650
Temp: 45 °F Humidity: 46%
Wind: 6.9 mph, from Northwest to Sou

Afternoon Weather Conditions:
Time: 1340
Temp: 57°F Humidity: 32 %
Wind: 10.0 mph, from South to North

Background Reading = 19.0 $\mu g/m^3$

Daily Threshold Level = 23.5 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

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LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Jessica Friscia	CLIENT: Highline West 24th Street, LLC	DATE: 2013-04-16 TIME ONSITE: 0650 TIME OFFSITE: 1530

Morning Weather Conditions:
Time: 0650
Temp: 48.9 °F Humidity: 77%
Wind: 10.0 mph, from Northwest to Southeast

Afternoon Weather Conditions:
Time: 1450
Temp: 61°F Humidity: 67 %
Wind: 10.0 mph, from South to North

Background Reading = 14.3 $\mu g/m^3$

Daily Threshold Level = 23.5 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

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LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline 508 West 24th Street, LLC	DATE: 2013-04-17 TIME ONSITE: 0705 TIME OFFSITE: 1415

Morning Weather Conditions:
Time: 0730
Temp: 54°F Humidity: 79%
Wind: 1.6 mph, from northwest to southeast

Afternoon Weather Conditions:
Time: 1300
Temp: 69°F Humidity: 40%
Wind: 3.1 mph, from northwest to southeast

Background Reading = 7.3 $\mu g/m^3$

Daily Threshold Level = 107.3 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

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LANGAN

AIR MONITORING EXCEEDENCE LOG

PROJECT No.: 100242701 PROJECT: 508 W 24th Street LOCATION: New York, NY PERSONNEL: Lindsay Deckard	CLIENT: Highline 508 West 24th Street, LLC	DATE: 2013-04-18 TIME ONSITE: 0700 TIME OFFSITE: 1430

Morning Weather Conditions:
Time: 0715
Temp: 51°F Humidity: 68%
Wind: 5.0 mph, from southeast to north

Afternoon Weather Conditions:
Time: 1315
Temp: 57°F Humidity: 51%
Wind: 8.0 mph, from south to north

Background Reading = 11.0 $\mu g/m^3$

Daily Threshold Level = 111.0 $\mu g/m^3$

Exceedence(s) of Langan's Health & Safety Criteria noted:

A.M. Station	Time Start	Time End	Conc Range ($\mu g/m^3$)	Source	Corrective Action
1	No Exceedences				

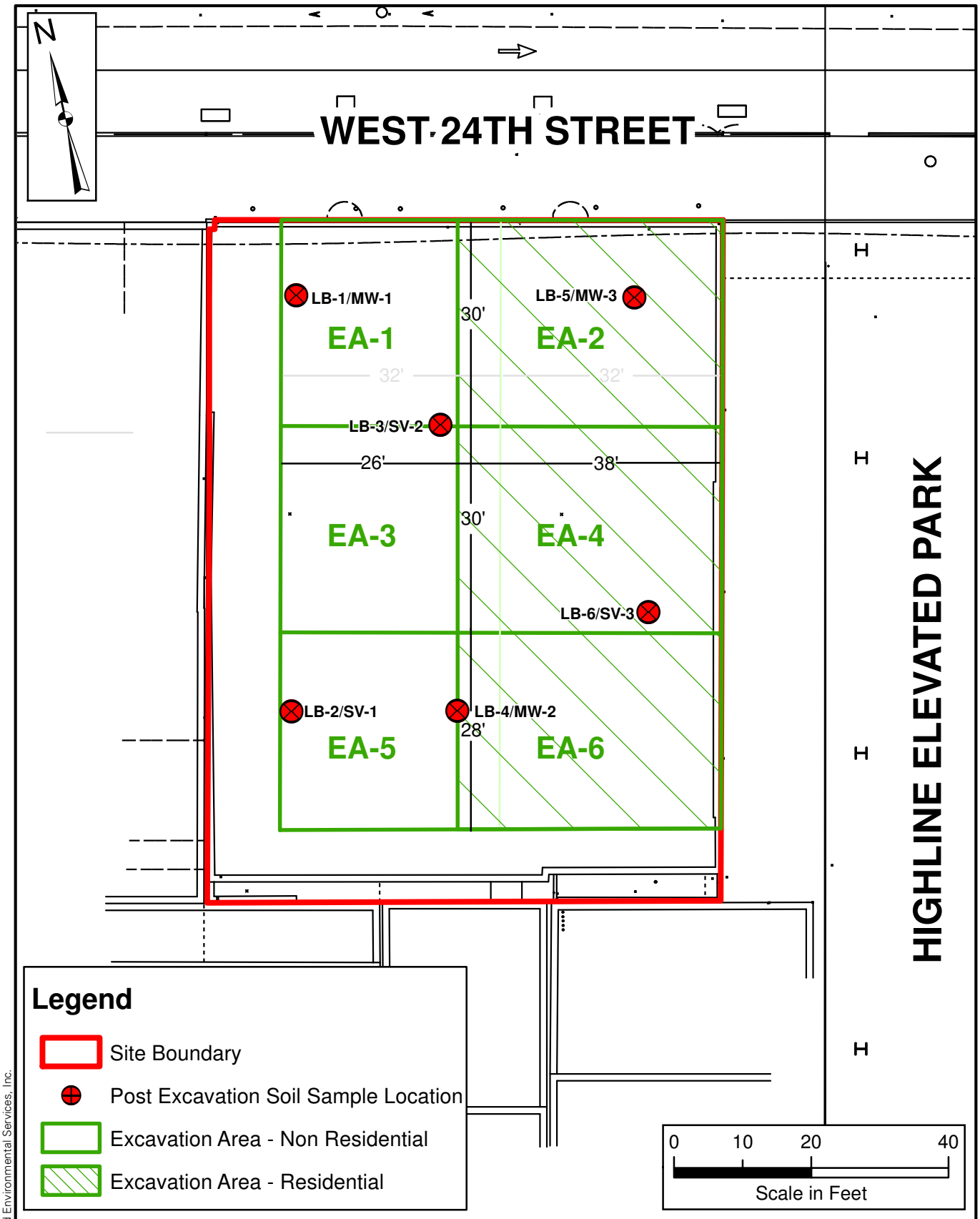
NOTES:
Weather data is obtained from www.weatherunderground.com

Action levels for dust are as follows:
-If a steady-state condition of >0.100 mg/m3 above background levels or visible dust is present for a 15-minute period, dust control must be implemented.
-If dust levels reach >0.150 mg/m3 above background levels following dust suppression, work must be stopped a dust control implemented until levels fall <0.150 mg/m3.

RECOMMENDATIONS:

The complete air monitoring results are available onsite on a daily basis for review. Please call Chris McMahon or Amanda Forsburg at 201-794-6900 with any questions.

Daily Reports



LANGAN
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NJ Certificate of Authorization No: 24GA27996400

Project
EXCAVATION AREA GRID MAP
508 W 24TH STREET
MANHATTAN
NEW YORK COUNTY NEW YORK

Project No.	Date	Scale	Figure
100242701	10/11/2012	1" = 20'	X

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Path: \\Langan.com\data\EP\data7\100242701\ArcGIS\MXD_MapDocuments\RAR\Excavation Grid Map Updated 2012-10-11.mxd

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-08-13
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0800 - 1410

Consultant: Langan Engineering

Safety Officer: Amanda Forsburg

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
TM 18/22 HD (sheeting driver)

Personnel On Site: Amanda Forsburg (Langan), William Meli (Triton), Anthony Rafaniello (Triton), Joey (Intercoastal), Charlie (TSC), truck driver, Triton laborers

Work Activities Performed (Since Last Report):

Intercoastal Foundations and Shoring employed the use of an excavator to probe for large pieces of demolition debris along the eastern and western edges of the property. Large pieces of debris will interfere with sheet driving. The excavation reached depths of approximately 4' bgs. Large chunks of conglomerated bricks and concrete were stockpiled for later removal from the site. Historic fill removed as part of the process was replaced into the hole. One truckload of sand (to be used as temporary fill) was imported to the site. The sand was generated at Blue Green Farms in Brookhaven, NY brokered by NY Topsoil.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-4, EA-6 (See excavation area grid map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

There is no access to water for dust suppression on the site. Intercoastal informed Langan that a laborer with a hose would be present tomorrow.

Planned Activities for Next Work Day:

Intercoastal plans to continue to probe for large chunks of demolition debris and have metal sheeting delivered.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	0	0								

Photo Log

Photo 1 – Intercoastal Foundations and Shoring employed the use of an excavator to probe for large pieces of demolition debris along the eastern and western edges of the property.	
Photo 2 – Large chunks of conglomerated bricks and concrete were stockpiled for later removal from the site.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-08-14
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0645 - 1400

Consultant: Langan Engineering

Safety Officer: Jessica Friscia

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
TM 18/22 HD (sheeting driver)

Personnel On Site: Jessica Friscia (Langan), Amanda Forsburg (Langan), William Meli (Triton), Anthony Rafaniello (Triton), Joey (Intercoastal), Charlie (TSC), truck driver, Triton laborers

Work Activities Performed (Since Last Report):

Intercoastal Foundations and Shoring employed the use of an excavator to probe for large pieces of demolition debris along the eastern and western edges of the property. Large pieces of debris will interfere with sheet driving. The excavation reached depths of approximately 4' bgs. Large chunks of conglomerated bricks and concrete were stockpiled and removed from the site at the end of the day. Historic fill removed as part of the process was replaced into the hole. The truckload of sand imported to the site on 13 August 2012 was used as temporary fill. Approximately 20 feet of sheeting were installed along the eastern edge of the lot.

The air monitoring log is attached.

Working In Grid #: EA-1, EA-2, EA-4, EA-6 (See excavation area grid map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

There is no access to water for dust suppression on the site.

Planned Activities for Next Work Day:

Continue to remove demolition debris and drive sheeting.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal Foundations and Shoring jackhammered concrete along the western edge of the property.	
Photo 2 – Intercoastal Foundations and Shoring used imported sand as temporary fill.	

Photo 3 – Intercoastal Foundations and Shoring drove sheets approximately 60’ into the ground.	
Photo 4 – Large chunks of conglomerated bricks and concrete were removed from the fill for later removal from the site.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-08-15
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0645 - 1400

Consultant: Langan Engineering

Safety Officer: Jessica Friscia

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 297C (skid steer)
Cat 321C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel On Site: Jessica Friscia (Langan), William Meli (Triton), Anthony Rafaniello (Triton), Joey (Intercoastal), Charlie (TSC), truck driver, Triton laborers

Work Activities Performed (Since Last Report):

Intercoastal Foundations and Shoring employed the use of an excavator to probe for large pieces of demolition debris along the eastern edge of the property. Large pieces of debris will interfere with sheet driving. The demolition debris was broken using a bobcat with a hammer attachment. The excavation reached depths of approximately 4' bgs. Large chunks of conglomerated bricks and concrete were stockpiled for later removal from the site. Historic fill removed as part of the process was replaced into the hole. Approximately 20 feet of sheeting were installed along the eastern edge of the lot.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-6

Samples Collected (Since Last Report):

N/A

Problems Encountered:

There is no access to water for dust suppression on the site.

Planned Activities for Next Work Day:

Continue to remove demolition debris and drive sheeting.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal Foundations and Shoring hammered concrete along the eastern edge of the property.	
Photo 2 – Intercoastal Foundations and Shoring drove sheets approximately 60' into the ground along the eastern side of the property..	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-16-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0645-1400

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel Onsite: Christine B Madsen (Langan), William Meli (Triton), Joey (Intercoastal), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, S & E Bridge and Scaffold workers, truck drivers

Work Activities Performed (Since Last Report):

Site received deliveries of pile sheets in order to complete the sheet wall on the eastern wall of the site. The excavator dug out the eastern side of EA-2 in order to loosen soil and remove large chunks of concrete and demo debris. The excavated fill was then put back into place. The bobcat with hammer attachment broke up the sidewalk at eastern corner of EA-2. The demolition debris was stockpiled for removal from the site later during the day. The TM 18/22 HD drove in the remaining pile sheets to complete the wall along the eastern side of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

NA

Problems Encountered:

There is no hose onsite yet. The permit may be obtained, and Triton is waiting on the plumbers.

Planned Activities for Next Work Day:

Continued Sheet Driving to complete a box containing the site.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Excavator digging a ditch in eastern corner of EA-2 for driving sheet piles.	

Photo 2 – Concrete hammering in the eastern corner of EA-2. Truck is tearing up sidewalk for the sheet piles.	
Photo 3 – Sheet Piles looking from north to south of the eastern wall of the site.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85		>85	x

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-17-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0630

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel Onsite: Christine B Madsen (Langan), William Meli (Triton), Joey (Intercoastal), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, S & E Bridge and Scaffold workers, truck drivers

Work Activities Performed (Since Last Report):

Site received deliveries of pile sheets in order to complete the sheet wall on the north side of the site. Sheet driving was completed along the north wall moving east to west. Some large concrete blocks of the former wall of the building were removed from the north west corner of EA-1.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-1 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

NA

Problems Encountered:

There is no hose onsite yet. The permit may be obtained, and Triton is waiting on the plumbers.

Planned Activities for Next Week:

Continued Sheet Driving to complete a box containing the site.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – The intersection of the eastern wall and the northern wall of completed sheet piles.	
Photo 2 – Looking north west along the north wall of the site at completed sheet pile wall.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-20-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0630-1440

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel Onsite: Christine B Madsen (Langan), Himanshu Tripathi (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Sheet driving was completed along the west wall moving north to south. A crack was detected in a wall in the building to the south west of the site, so activities were halted in the morning. After crack monitors were installed, sheet driving resumed.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

NA

Problems Encountered:

Datalogging was not enabled on the DR-4. There is no logged data, though field monitoring data was recorded.

Planned Activities for Next Work Day:

Continue driving sheet piles.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Completed sheet pile wall, looking north along the western site boundary.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-21-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Sheet Piles were driven continuing along the western wall going north to south. This wall was completed and the southern wall was started. The southern wall piles have H-beams welded to them, so continuous welding occurred during the day in addition to sheet pile driving.

The air monitoring exceedance log is attached.

Working In Grid #: EA-3, EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

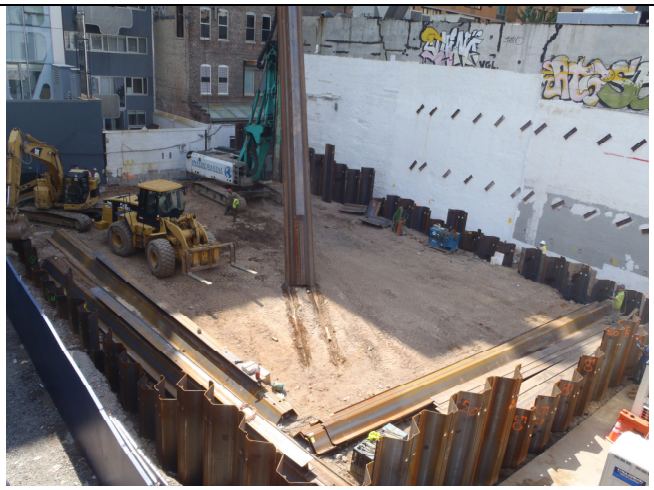
N/A

Planned Activities for Next Work Day:

Continue Sheet Piling along the southern wall, from west to east.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Facing south along the western wall during sheet pile driving.	
Photo 2 – View of the site from Highline Park facing southwest.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-22-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 966G (frontloader) Cat 321C (track-mounted excavator) Cat 297C (track-mounted bobcat) TM 18/22 HD (sheeting driver)
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Welding occurred continuously all day in which H-beams were attached to sheet piles for the southern wall of sheeting. These sheet piles were then driven into the ground along the southern wall moving from west to east starting close to the middle of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-5, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Still no hose on site.

Planned Activities for Next Work Day:

Continue sheet driving and remove excess height of sheet piles.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Workers welding H-beams to the sheet piles in EA-2 and EA-4. Facing south along the eastern side of the site.	
Photo 2 – Sheet pile wall along the western side of the site. Facing the south.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-23-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 966G (frontloader) Cat 321C (track-mounted excavator) Cat 297C (track-mounted bobcat) TM 18/22 HD (sheeting driver)
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

The excess height of the sheet piles was removed. Sheet pile driving along the southern wall of the site was completed, thus completing all sheet pile driving. Cement was poured in the northwest corner of the site where the sidewalk was missing.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-5, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Mobilization of equipment for driving mini caissons.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Sheet pile driving was completed. Eastern side of the site facing south.	
Photo 2 –Current site conditions facing southwest. View from the Highline Park.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-08-29
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig)

Personnel Onsite: Christine B Madsen (Langan), Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Mini-Caisson installation along the southern part of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

Two shallow and two deep post-excavation soil samples were collected from the setbacks outside of the excavation area. One set was collected from the south side of the site and one from the west side of the site. The shallow samples will be analyzed for VOCs and SVOCs and the deeper contingent samples will be run if necessary for the same analyses.

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue drilling mini-caisson

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Drilling mini-caissons along the southern side of the site. Facing south east.	
Photo 2 – Site facing northeast, looking down from the roof of the 514 24th Street roof.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-30-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Joe (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Mini-Caisson installation along the southern part of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue installing Mini-caissons

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Drill rig drilling along the southern portion of the site.	
Photo 2 –Driller cleaning rock socket using water and compressed air	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	08-31-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Joe (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Mini-Caisson installation along the southwestern part of the site.
Steel beam cutting using oxy-acetylene torch.

The air monitoring exceedance log is attached.

Working In Grid #: EA-4 and EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue installing Mini-caissons and cutting steel beams

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Construction worker cutting steel beams	
Photo 2 – Mini-caisson installation in progress	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-04-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Joe (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Mini-Caisson installation along the southwestern part of the site.
Relocated steel casing stacks.

Triton brought watering hose on site for dust suppression.

The air monitoring exceedance log is attached.

Working In Grid #: EA-3, EA-4 and EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue installing Mini-caissons.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Mini-caisson installation in progress in area EA-5	
Photo 2 – Mini-caisson installation in progress in area EA-3	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-05-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Chintan A Brahmbhatt

Contractor: Triton Construction
Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig)
Cat 321C (track-mounted excavator)
Delivery trucks

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Joe (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Mini-Caisson installation along the western part of the site.
Relocated steel casing stacks.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, and EA- 4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavate along the western property line to locate obstructions.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Driller cleaning the mini-caisson rock socket using water and compressed air in area EA-3	
Photo 2 – Contractor installing mini-caisson in area EA-1	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-06-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Roy (East end Foundations), John Connolly (Total Safety Consultants), construction workers from East end

Work Activities Performed (Since Last Report):

Excavated along the western part of the site to locate the extent of the obstruction encountered at mini-caisson locations.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, and EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavate along the western property line to locate obstructions.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Construction worker exposing the obstruction edges in area EA-3	
Photo 2 – Contractor excavating for the obstruction in area EA-3	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	x

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-07-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks Case 590 rubber tire mounted backhoe
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Xhavit lajqi (SICON), John Connolly (Total Safety Consultants), construction workers from Sicon, Roy (East end) and east end workers

Work Activities Performed (Since Last Report):

East end crew excavated along the western part of the site to locate the extent of the obstruction encountered at mini-caisson locations.

Sicon crew excavated for the sewer connection in the sidewalk to the north of the area EA-2.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA- 5, and north of EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavate along the western property line to check foundation of neighboring property. Continue installing sewer pipes.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Construction workers excavating for sewer pipe installation to the north of area EA-2	
Photo 2 – Contractor excavated for the sewer installation to the north of area EA-2.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-10-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks Case 590 rubber tire mounted backhoe Hydraulic saw cut with upto 6' dia saw
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Xhavit lajqi (SICON), three (3) construction workers from Sicon, Mike (Eastern Concrete Cutting Corp.)Two (2) Construction workers from Eastern Concrete cutting corp.

Work Activities Performed (Since Last Report):

Workers from Eastern concrete cutting corp. sawcut the two concrete obstructions encountered along the western property line. Concrete dust generated by this activity was not related to soil excavation.

Sicon crew installed sewer pipes in the excavation made within the southern sidewalk of West 24th Street located to the north of the area EA-2.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA- 5, and north of EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Remove the concrete obstructions found along the western property line.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Eastern concrete cutting corp. worker saw cutting the concrete obstruction encountered within the northwestern corner of the site or within area EA-1.	
Photo 2 – SICON installed sewer pipe in the excavation to the north of area EA-2.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-11-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Chintan A Brahmbhatt

Contractor: Triton Construction
Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig)
Cat 321C (track-mounted excavator)
Delivery trucks
Case 590 rubber tire mounted backhoe

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe (Intercoastal) and four (4) construction worker from Intercoastal, Two (2) construction worker from East end.

Work Activities Performed (Since Last Report):

Intercoastal removed the concrete obstruction encountered at caisson # 2. However, the obstruction at caisson # 5 could not be removed. Intercoastal installed caisson # 2 and cleaned the rock socket.
East end workers hand dug the soil around the obstruction encountered within the northwestern corner of the property at caisson # 5.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, and EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Remove the concrete obstruction found along the northwestern corner of the property. Video inspect the rock socket of already drilled caissons.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Caisson #2 installation in progress within EA-3.	
Photo 2 – East end workers hand digging around the concrete obstruction encountered within northwestern corner of the property in EA-1.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-12-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks Concrete core machines (2)
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe (Intercoastal) and four (4) construction worker from Intercoastal, Two (2) construction worker from Eastern Concrete cutting corp.

Work Activities Performed (Since Last Report):

Intercoastal thoroughly cleaned rock socket using water and performed video inspection of six caissons drilled to date.

Eastern concrete crew began coring through concrete obstruction along the saw cut line.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA-5, and EA- 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue coring through concrete obstruction encountered within the northwestern corner of the property.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal crew cleaning rock socket of Caisson #1 within EA-5.	
Photo 2 – Eastern concrete worker coring through concrete obstruction within the northwestern corner of the property or area EA-1.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-13-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks Concrete core machines (2) Grout mixing plant
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe and Steven(Intercoastal) and three (3) construction worker from Intercoastal, Two (2) construction worker from Eastern Concrete cutting corp., Carlos and crew of two (2) grout inspector (20-20 Inspections)

Work Activities Performed (Since Last Report):

Intercoastal installed reinforcement in three caissons and grouted the same. Inspector from 20-20 inspections took grout samples.

Eastern concrete crew finished coring through concrete obstruction along the saw cut line in the northwestern corner of the property.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, and EA- 5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Grout remaining caissons and drilled caisson # 5.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal crew installing reinforcement in Caisson #1 within EA-5.	
Photo 2 – Grouting operation in progress at caisson # 6 within EA-5.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-14-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Cat 321C (track-mounted excavator) Delivery trucks Concrete core machines (2) Grout mixing plant
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe and Steven(Intercoastal) and three (3) construction worker from Intercoastal, Mahendra and carlos (20-20 Inspections)

Work Activities Performed (Since Last Report):

Intercoastal installed reinforcement in two caissons and grouted the same. Inspector from 20-20 inspections took grout samples. Installed a 35-foot long piezometer between caisson #2 and #3.

The air monitoring exceedance log is attached.

Working In Grid #: EA-3 and EA- 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Grout remaining caissons. Install caisson # 5.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal crew drilling to install a 35-feet long piezometer casing within EA-3.	
Photo 2 – Grouting operation in progress at caisson # 7 within EA-6.	

Photo 3 – Grout mixing plant in operation.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-24-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Lull 1044C-54 forklift (tire-mounted) Delivery trucks Watson Drill rig (Track mounted) Grout mixing plant
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe and Steven(Intercoastal) and five (5) construction workers, Ron Smalley (Moretrench) and 2 construction workers

Work Activities Performed (Since Last Report):

Intercoastal drilled mini-caisson # 5 in the northwestern corner of the site.
Moretrench drilled and installed a dewatering well in the southeastern corner of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1 and EA- 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Install another dewatering well in the northeastern corner of the site.
Install reinforcement at and grout in caisson # 5.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal crew drilling for mini-caisson # 5	
Photo 2 – Moretrench crew installing dewatering well in the southeast corner of the site	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	09-25-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Comacchio MC 1200 Hydraulic drill rig (track-mounted drill rig) Lull 1044C-54 forklift (tire-mounted) Delivery trucks Watson Drill rig (Track mounted) Grout mixing plant
Safety Officer: Chintan A Brahmbhatt	

Personnel Onsite: Chintan A Brahmbhatt (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Joe and Steven(Intercoastal) and four (4) construction workers, Ron Smalley (Moretrench) and 2 construction workers, Abou and Trevor (20/20 inspection)

Work Activities Performed (Since Last Report):

Intercoastal installed reinforcement for and grouted mini-caisson # 5. Moretrench drilled and installed the second dewatering well in the northeastern corner of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1 and EA- 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Demobilize drill rigs.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Intercoastal crew grouting mini-caisson # 5.	
Photo 2 – Moretrench crew drilling for the second dewatering well in the northeast corner of the site	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-10-01
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Nifty Lift SP64 4x4 (Cherry Picker) JLG Lull 1044C-54 Series II Truck 10 Cat 315C L (Excavator)
Safety Officer: Christine B Madsen (CBM)	

Personnel Onsite: Christine B Madsen (Langan), William Meli (Triton), Phillip Evangelista (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), East End Concrete workers, truck drivers

Work Activities Performed (Since Last Report):

An excavator was delivered at 1220. The excavator dug out 18'' of fill in the setback area along the south wall for future placement of the grade beam. Fill was scraped out along the south wall and sloped along the sheet pile within the setback area.

The air monitoring exceedance log is attached.

Working In Grid #: Work was completed in the setback area along the south wall (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

At 0650 CBM fresh air calibrated the PID, but a battery warning displayed on the screen. CBM tried to restart and re-calibrate, but the PID shut off. CBM charged the PID until the screen showed "fully charged". CBM restarted and calibrated, but the readings were inaccurate; e.g. fresh air calibrate read 0.2-0.4 ppm instead of 0 ppm and Isobutylene calibration read 0.2 ppm instead of 100 ppm. The PID also displayed a low battery signal. CBM called Pine Environmental to troubleshoot; they sent a replacement for the next day's use.

Planned Activities for Next Work Day:

Continue digging 18" deep in the setback area along the south wall for future placement of the grade beam. The disposal facility plans to come to the site to collect a deep sample for waste characterization.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Excavator scraping out 18" of fill in southeast corner of site for future placement of the grade beam, facing south east.	
Photo 2 – East End Concrete worker digging out 18" trench along the south wall of the site for future placement of the grade beam, facing south east.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-10-02
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315C L (Excavator) Nifty Lift SP64 4x4 (Cherry Picker) Cat 297C (Track Mounted Bobcat)
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Continued to scrape out a trench that was started yesterday along the south wall in the setback area. Rock encountered in the trench was broken up with the excavation hammer on the bobcat. A representative from the disposal facility collected a 7.5-ft deep sample for waste characterization. The sample was collected from a test pit dug in EA-3. The test pit was re-filled after sampling.

The air monitoring exceedance log is attached.

Working In Grid #: EA-3 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Leveling trench in the setback area and putting up bracing on adjacent building

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Trenching activity in the setback in the south east corner of the site, facing southeast.	
Photo 2 – Excavation hammer removing former site building foundations from the adjacent building to the southeast, facing southeast.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	x	Overcast		Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	10-10-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Christine B Madsen

Contractor: Triton Construction
Equipment: Cat 315C L (Excavator)
Cat 297C (Track Mounted Bobcat)

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

The west side of the site was graded to about 18 inches below grade in the setback area to allow for a cement foundation pour tomorrow. The footing in the setback area along the western side was removed by jackhammers.

The air monitoring exceedance log is attached.

Working In Grid #: Work was completed in the setback area along the south wall (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

DR-4 was reporting a source failure. Abnormal "0 ug/m^3" readings were observed. CBM called Pine Environmental to replace the unit for tomorrow.

Planned Activities for Next Work Day:

Pouring the grade beams in the south setback area and continue grading of the west setback area to clear space for future grade beam and foundation installation.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Trench along western side of site, within setback area where grade beam and foundation will be poured, facing south west.	
Photo 2 – Workers jackhammering the concrete footers of the former building along the south wall, facing southeast.	

Photo 3 – Trench along western wall prepared for grade beam and foundation pour, facing northwest.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	10-11-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315C L (Excavator) Cat 297C (Bobcat)
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Phillip Evangelista (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

The sheet piles were cut lower to provide space for the cement pour. A dumpster was brought onsite to transport garbage and large demo debris offsite. The south side of the site was prepared for cement pouring of the grade slab. The excavator was assisting the workers by backfilling the space between the sheet piles and the wooden forms for the cement pour with fill from the setback area.

The air monitoring exceedence log is attached.

Working In Grid #: Work was completed in the setback area along the south and west side of the site (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

The excavation and trucking of historic fill in areas EA-1 through EA-6 will begin.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	---	---								

Photo Log

Photo 1 – Excavator pulling out chunks of concrete from the footer of the former building, facing southwest.	
Photo 2 – Excavator backfilling in setback area along the south side of the site into the space between the sheet piles and wooden forms for the cement, facing southeast.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	12OCT12
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Lindsay Deckard

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
Concrete saw

Personnel Onsite: Lindsay Deckard (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Roy (East End Excavators) Intercoastal workers, CP trucking drivers, Jeff Bogoian (Impact Environmental), Eastern Concrete Cutters, Inc. workers

Work Activities Performed (Since Last Report):

Concrete footer nearest to Northwest corner cut and removed. Excavation of EA-6 and EA-4 along property boundary to approximately 8'-10' in towards center of site. 3 trucks, making 4 rounds each, disposed of 12 truckloads of soil. South wall waterproof concrete layer completed to prepare for grade slab. Gravel dumped and spread to create pad for incoming/outgoing trucks for soil management.

The air monitoring exceedance log is attached.

Working In Grid #: EA-6 and EA-4 (excavation). EA-1 (concrete footer cutting). EA-2 gravel truck pad. (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

Two soil samples collected at 27' North of Southwest corner of site, 2' east of west wall. Collected at depths of 2' and 3' below site grade (site grade was approximately 7' ASL prior to excavation activities, therefore soil samples were collected at 5' and 4' ASL).

Problems Encountered:

East End had not created proper truck entrance/exit. Only soil management practice employed was a ramp of residential soil created for truck entrance/exit. Roy of East End and his workers were made aware of issue. Minor amount of soil left site on truck tires was spread onto sidewalk and road. (Resolution: At approximately 2:30 pm a truck unloaded gravel and East End spread it around entrance of site).

Planned Activities for Next Work Day:

For Monday, continue with excavation in remaining portion of residential soil grids.
Expect cement grade slab to be poured at the earliest sometime middle of next week.

Facility # Name/ location type of waste	Lincoln Park, Jersey City, NJ Residential soil									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	12	300								
Totals (trucks, cu.yds.)	12	300								

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	TO 32		32-50		50-70	X	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	10-15-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 297C (track-mounted bobcat) Cat 321C (track-mounted excavator)
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Intercoastal workers, East End Concrete Workers truck drivers

Work Activities Performed (Since Last Report):

Excavation occurred in EA-3, EA-4, EA-5 and EA-6. Fill was loaded into trucks and transported to the Lincoln Park Jersey City disposal facility. Twelve truckloads of fill were removed. Steel beams were delivered onsite and stockpiled along the east side of the site. Waterproofing was installed in the setback area along the southern side of the site.

The air monitoring exceedance log is attached.

Working In Grid #: EA- 3, EA-4, EA-5, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Placing steel beams along south and west setback areas of the site and breaking up concrete chunks. No excavation and/or earthwork will be performed until further notice, pending the pouring of cement for the grade beams.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	12	300								
Totals (trucks, cu.yds.)	24	600								

Photo Log

Photo 1 – Excavator removing fill from EA-5 to load into the truck onsite, facing southwest.	
Photo 2 – The extent of excavation on the site at the end of the day; EA-6 removed to 5-ft below sidewalk grade, EA-4 partially removed to 5-ft below sidewalk grade, EA-5 partially removed to 5-ft below sidewalk grade, looking down from Highline Park facing southwest.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	10-17-2012
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: N/A

Contractor: Triton Construction
Equipment: Cat 966G (frontloader)
Cat 321C (track-mounted excavator)
Cat 297C (track-mounted bobcat)
TM 18/22 HD (sheeting driver)

Personnel Onsite: Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, truck drivers

Work Activities Performed (Since Last Report):

Langan was notified by Triton that a UST was discovered in the northeast corner of the site while equipment was being moved. The tank is located in the vicinity of monitoring well MW-3 that was installed as part of Langan's remedial investigation at the site completed in December 2011. Only one VOC and one SVOC were reported above the NYSDEC Part 703 Groundwater Quality Standards in the sample collected at MW-3. Additionally, no exceedances of the Subpart 375-6 Unrestricted Use Objectives were reported in the soil sample collected from soil boring LB-5/MW-3. A spill was reported to the NYSDEC due to groundwater being present in the excavation and Spill No. 1210222 was assigned.

PID readings collected during the removal of the UST include the following:

Soil beneath the tank: 81 ppm - 161 ppm
Air at the tank vent: 29.1 ppm
Concrete encasement: 129 ppm
Air 1-foot above the excavation: 12 ppm

Additionally a sheen was observed on the groundwater after the UST was removed.

Working In Grid #: N/A (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Potentially removing the UST.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	12	300								
Totals (trucks, cu.yds.)	24	600								

Photo Log

Photo 1 – Uncovered UST, facing northeast. Photo provided by Triton.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-10-24
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 321C (track-mounted excavator) Concrete saw
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine Madsen (Langan), Anthony (Triton), William Meli (Triton), Joey (Intercoastal), Charles Drew (Total Safety Consultants), Roy (East End Excavators) Intercoastal workers, truck drivers, Jeff Bogoian (Impact Environmental), Eastern Concrete Cutters, Inc. workers

Work Activities Performed (Since Last Report):

The UST area was covered with plastic poly sheeting as a demarcation barrier and backfilled for protection from machinery. Intercoastal installed three tiebacks along the eastern side of the site. East End workers installed rebar along the western side of the site in preparation for pouring of cement for the grade beam.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

Four post-excavation samples were collected along the north, south, east and west sidewalls of the former UST excavation from 5'-7.5' below sidewalk grade.

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue installation of tiebacks and rebar is expected. The tiebacks will be finished by Thursday, October 25.

Facility # Name/ location type of waste	Lincoln Park, Jersey City, NJ Residential soil									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	12	300								
Totals (trucks, cu.yds.)	24	600								

Photo Log

Photo 1 – Former UST location, facing southeast.	
Photo 2 – Former UST location, covered with plastic sheeting, facing south.	

Photo 3 – Area of UST location covered with plastic sheeting and backfilled with fill from EA-6, facing south.	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	X	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-11-08
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 321C (track-mounted excavator) Concrete Saw
Safety Officer: Stephanie Frank	

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Triton workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation of EA-5, EA-3 and EA-4 was performed. Triton workers installed rebar along the western side of the site in preparation for pouring cement for the grade beam.

No monitoring exceedance log is attached. Air monitoring was not performed because air monitoring equipment was damaged by Hurricane Sandy.

Working In Grid #: EA-5, EA-3, EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Unable to perform air and dust monitoring because equipment was damaged by Hurricane Sandy.

Planned Activities for Next Work Day:

Continued installation of rebar expected.

Facility # Name/ location type of waste	---									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	12	300								
Totals (trucks, cu.yds.)	36	900								

Photo Log

Photo 1 –Initial site conditions showing site covered with light snow, facing south.	
Photo 2 –Excavation in EA-5 and EA-3. Facing southwest.	

Photo 3 –Aerial view of site from Highline Elevated Park post-excavation.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	X	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-12-05
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering

Safety Officer: Stephanie Frank (SF)

Contractor: Triton Construction
Equipment: Track-mounted bobcat
Cat 315C (track-mounted excavator)
Cat 289C (track-mounted bobcat)
Drill Rig
HD110 Drill Rig

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Intercoastal and Triton workers, Mr. Deheer (FDNY)

Work Activities Performed (Since Last Report):

Soil movement with excavator in EA-1, EA-3, EA-4. Concrete/rock cutting/breaking. Hot work (welding/grinding) on sheet piles in EA-3.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

The site appeared as if soil movement had taken place since the last time Langan was on site (11/8/12). Per Anthony (Site Super), the soil piles were from equipment being moved around site and additional grouting of sheet piles. Anthony confirmed no earth work has been performed since Langan last on site.

Planned Activities for Next Work Day:

Excavating and trucking out soil.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	36	900								

Photo Log

Photo 1 – Site conditions at the beginning of the day.	
Photo 2 – Excavation in EA-3.	

Photo 3 – Depth of excavation in EA-1/EA-3/EA-5 at the end of the day.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Clear	X
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-12-06
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Track-mounted bobcat Cat 315C (track-mounted excavator) Cat 289C (track-mounted bobcat) Drill Rig HD110 Drill Rig
Safety Officer: Stephanie Frank (SF)	

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Intercoastal and Triton workers

Work Activities Performed (Since Last Report):

Excavation in EA-1, EA-2, EA-3, EA-4, EA-5. Cleaned out grouting funnel. Hot work (welding/grinding) on sheet piles in EA-3 and EA-1.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4, EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Ran out of Non-residential Manifests and Residential Bills of Lading. Anthony (Site Super) had requested more from Roy (East End). The wrong ones were delivered. Langan was instructed by Anthony to cross out Residential and circle Non-residential on Manifests needed for the day, and to cross out Non-residential and write in Residential on the Bills of Lading needed for the day.

First round of trucks were held up at delivery location because weigh station was backed up. Anthony told Langan that a second round of trucks would be sent, but the trucks never came.

Planned Activities for Next Work Day:

Truck out soil and concrete. More hot work.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	5	125								
Totals (trucks, cu.yds.)	41	1025								

Photo Log

Photo 1 – Site conditions at the beginning of the day.	
Photo 2 – Excavation in EA-1.	

Photo 3 – Excavation in EA-2.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-12-07
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Track-mounted bobcat Cat 315C (track-mounted excavator) Cat 289C (track-mounted bobcat) Drill Rig HD110 Drill Rig (removed end of day)
Safety Officer: Stephanie Frank (SF)	

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Paul Meli (Zurich), Laura (Aurora), Intercoastal and Triton workers

Work Activities Performed (Since Last Report):

Excavation in EA-1, EA-2, EA-3, EA-4. Hot work (welding/grinding) on sheet piles in EA-3 and EA-1.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Anthony (Site Super) told Langan trucks would be coming today but they never came to the site. Anthony said that trucks will now be coming on Monday 12/10/12.

Planned Activities for Next Work Day:

Truck out soil and concrete. More hot work.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	41	1025								

Photo Log

Photo 1 – Site conditions at the beginning of the day.	
Photo 2 – Excavation in EA-1.	

Photo 3 – Excavation in EA-2.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-12-10
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Track-mounted bobcat Cat 315C (track-mounted excavator) Cat 289C (track-mounted bobcat) Drill Rig
Safety Officer: Stephanie Frank (SF)	

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Roy (East End), Intercoastal and Triton workers

Work Activities Performed (Since Last Report):

Excavation in EA-1, EA-2, EA-3, EA-4, EA-6. Concrete cutting. Hot work in EA-1.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

DR4 was recording levels near or above action level during periods of 15-20 minutes when there was no activity on site. Contacted Pine Environmental who provided DR4 and spoke to Sam (Pine Tech). He confirmed that water molecules from rain or high humidity would raise the readings on the DR4, and if used during humidity higher than 50% then action levels should be increased by 50-100 ug/m3. The humidity today is 98% per wunderground.com.

On 12/5/12 SF notified Anthony (Triton) that there were no more Non-Residential Manifests or Residential Bills of Lading. Anthony in turn notified Roy (East End) then stated if they don't send more to cross out and make adjustments on the available manifests and bills of lading. Langan received more Manifests on 12/6/12 but they were Residential and Non-Residential were needed. Since then only Non-residential soil was trucked from the site, so the Manifests were adjusted with no issues and the Bills of Lading were correct. Today two trucks were sent with Bills of Lading on which Non-Residential had been crossed out and Residential had been written in. Both trucks were rejected by the facility and sent back to the site. More Residential Bills of Lading were located and both trucks were sent back to the facility with the correct paperwork.

Planned Activities for Next Work Day:

Truck out soil. Concrete cutting. Hot work.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	7	175								
Totals (trucks, cu.yds.)	48	1200								

Photo Log

Photo 1 – Site conditions at the beginning of the day.	
Photo 2 – Extent of excavation at the end of the day in EA-1/EA-3/EA-5.	

Photo 3 – Extent of excavation at the end of the day in EA-2.	

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ENGINEERING & ENVIRONMENTAL SERVICES

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2012-12-11
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M		

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Track-mounted bobcat Cat 315C (track-mounted excavator) Cat 289C (track-mounted bobcat) Drill Rig
Safety Officer: Stephanie Frank (SF)	

Personnel Onsite: Stephanie Frank (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Roy (East End), John (Total Safety Consultants), Intercoastal and Triton workers

Work Activities Performed (Since Last Report):

Excavation in EA-2, EA-4, EA-6. Trucks sent to facility with 4 loads of soil. Concrete cutting. Hot work (welding/grinding) on sheet piles in EA-3.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-3, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Hot work. Anthony (Site Super) informed SF that no earthwork activities will take place until further notice.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	4	100								
Totals (trucks, cu.yds.)	52	1300								

Photo Log

Photo 1 – Excavation in EA-6.	
Photo 2 – Excavating and loading truck in EA-2	

Photo 3 – Site conditions at the end of the day. Remainder of soil from this lift was left as a ramp in EA-2. The current grade of the site is approximately 4.5-feet below street level.	

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DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2JAN2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1615

Consultant: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315CL (track-mounted excavator)
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Anthony Rafaniello, Phillip Evangelista, and William Meli (Triton), Charles Drew (Total Safety Consultants), Roy and laborers (East End Excavation), truck drivers (Terrra Express, JDC Trucking, Spoiled Trucking LLC)

Work Activities Performed (Since Last Report):

16 soil loads out (10 Residential, 6 Non-Residential).

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-5, EA-6 (See Excavation Area Grid Map) Excavator remained mostly in EA-2 with occasional earthwork in EA-4, EA-6, and EA-5.

Samples Collected (Since Last Report):

N/A

Problems Encountered:

LD planned on taking post excavation samples of the UST area but was unable due to inaccessibility. The UST excavation area was covered with approximately 8'-10' of soil from EA-5 (Non-Residential) as a staging zone for soil transport and disposal.

Roy received a call from Birdsall Services Group at 11:35 due to Residential manifests being used for Non-Residential disposal. LD explained to Roy, Birdsall (on conference call), and Anthony that there are no Non-Residential manifests available and so LD made a handwritten notation to change the manifests to Non-Res. LD also explained to Birdsall that the Bill of Ladings were expired as of 30NOV12. Birdsall confirmed and said this was not an issue. Roy and Birdsall agreed that new Non-Residential manifests would be brought to the site tomorrow (3JAN3013) and that LD could continue with the hand written notations for today.

No stone was brought onsite to stabilize the truck entrance/exit prior to trucking as had been requested by Chris McMahon (Langan).

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Planned Activities for Next Work Day:
Soil load outs to continue per Anthony Rafaniello of Triton.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	16	400								
Totals (trucks, cu.yds.)	68	1700								

Photo Log

No photographs taken.

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DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	3JAN2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1545

Consultant: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315CL (track-mounted excavator) Drill Rig (on site but not used)
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Anthony Rafaniello, Phillip Evangelista, William Meli (Triton), Charles Drew (Total Safety Consultants), Roy and laborers (East End Excavation), truck drivers (Terra Express, JDC Trucking, Spoiled Trucking LLC)

Work Activities Performed (Since Last Report):

13 Soil loads out (8 Residential, 5 Non-Residential). GeoWeb crew was onsite to inspect the dewatering system and observe deepest part of excavation (southern end of site).

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-1 (See Excavation Area Grid Map) Excavator remained mostly in EA-2 with occasional earthwork in EA-1 to pile soil for disposal and to push groundwater accumulation towards SW corner of site/dewatering pump.

Samples Collected (Since Last Report):

PE-6, PE-7, PE-8, PE-9, PE-10, Dup, FB for the UST footprint area (approximately 29' south of north sheet wall and 12' west of east sheet wall).

Problems Encountered:

No stone was brought onsite to stabilize the truck entrance/exit prior to trucking as had been requested by Chris McMahon (Langan).

Truckers were held up at Lincoln Park Disposal Facility due to inaccurate scale issues.

Planned Activities for Next Work Day:

Soil load outs to continue per Anthony Rafaniello of Triton.

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Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	13	325								
Totals (trucks, cu.yds.)	81	2025								

Photo Log

No photographs taken.

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DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	4JAN2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1600

Consultant: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315 CL (track-mounted excavator) Drill rig (not operational)
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Roy and laborers (East End Excavation), truck drivers (Salazar, KCK Group, CF Bros., Terra Express), NYC Survey crew.

Work Activities Performed (Since Last Report):

19 soil loads out (14 Non-Residential, 5 Residential). Hotwork along south and east sheet walls. Local dewatering pump installed near to center of excavation extents of site and pumping on and off. Two excavation pits, one in the NW corner and one in the SE corner, were dug out to determine surface/groundwater issues on site. They will potentially be used for localized dewatering.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4 (Excavation) EA-2, EA-4, EA-5, EA-6 (Hotwork) (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

At start of work day LD observed evidence of soil tracked off premises. LD discussed issue with East End Excavation laborer. East End Excavation laborers used brushes to sweep sidewalk and street after first 4 truckloads. At 0855, 7 cubic yards of recycled concrete was brought onsite and spread to create stabilized truck entrance/exit. The origin of the recycled concrete is unknown.

Planned Activities for Next Work Day:

Continue with hotwork along south and north walls, as well as local dewatering from center pump. No soil movement will occur until further notice per William Meli and/or Anthony Rafaniello of Triton.

Additional steel to be brought onsite Tuesday, 8JAN2013.

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Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site & Redevelopment Facility, Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	19	475								
Totals (trucks, cu.yds.)	100	2500								

Photo Log

Photo 1 – Recycled concrete placed at truck entrance/exit ramp. Facing southeast.	
Photo 2 –Excavation pit for localized dewatering. Facing south.	

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Photo 3 – Pooled surface and/or groundwater along western sheet wall. Facing south.	

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DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	9JAN13
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 1600

Consultant: Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315C L (track-mounted excavator) Drill rig
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Anthony Rafaniello and William Meli (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

14 Soil load outs (5 Residential, 9 Non-Residential). Hotwork (installation of chairs and whalers) along eastern and western walls. Local dewatering of NW corner, excavation pit. Crack gauges on adjacent building to the west checked. Ramp in EA-2 dug up and piled closer to center of site for hotwork access to NE corner tomorrow.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4 (Excavation) East perimeters of EA-2, EA-4, EA-6 and west perimeters of EA-1, EA-3, EA-5. (Hotwork) (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

NA

Planned Activities for Next Work Day:

Hotwork to continue (installation of whalers and tie-backs in EA-2). No soil movement will occur until further notice per William Meli and/or Anthony Rafaniello of Triton.

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Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	14	350								
Totals (trucks, cu.yds.)	114	2850								

Photo Log

Photo 1 – Installed whaler along western sheet wall. Facing south.	
Photo 2 – Hotwork along eastern wall (installed chairs in preparation for whalers). Facing south.	

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Photo 3 –View of site conditions at end of day from Highland Park. Facing southwest.	

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-01-22
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0735-1330

Consultant: Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Excavator 315C
Safety Officer: Christine B Madsen	

Personnel Onsite: Christine B Madsen(Langan), Anthony (Triton), William Meli (Triton), (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

No work was performed. Stockpiling and creating a ramp was planned, but due to the excavator breaking down, no work was completed.

Working In Grid #: N/A

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Excavator malfunction

Planned Activities for Next Work Day:

Creating a ramp, and stockpile for trucking.

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Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	114	2850								

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DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-01-23
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0800-1530

Consultant: Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Excavator
Safety Officer: Christine B Madsen	

Personnel Onsite: (Langan), Anthony (Triton), William Meli (Triton), (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation of EA-4 and E-6 was completed to completion depth. Material from these sections was used to build a ramp for the excavator to move on in order to load trucks. This ramp is located in EA-2 and consists only of residential-designated material. A total of 13 tuck loads were disposed off offsite to the Lincoln Park Disposal Facility.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Earthwork was completed following Langan's departure from the site on 2013-01-22. Upon arrival to the site on 2013-01-23, a ramp was observed in EA-2. Per Triton, the material for the ramp was generated from EA-4 and EA-6 and consisted of only residential-designated material which appeared to be consistent with the disturbed areas.

Planned Activities for Next Work Day:

Continued trucking of excavated material.

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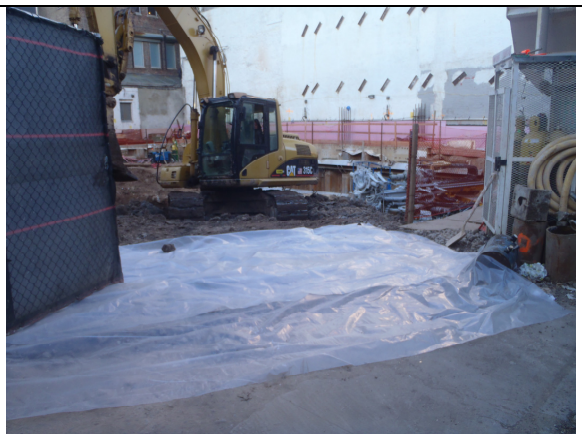
Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	13	325								
Totals (trucks, cu.yds.)	127	3175								

Photo Log

Photo 1 – Truck egress consisting of thick plastic sheeting, facing southeast.	
Photo 2 –View of the site taken from the Highline Park, marking the progress of the excavation and the clear distinction between non-residential (left) and residential (right) material.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	24JAN13
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1605

Consultant: Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315CL (track-mounted excavator)
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Anthony Rafaniello (Triton), William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers, Seth Vaidya (Langan)

Work Activities Performed (Since Last Report):

Excavation and trucking. 23 truckloads of soil transported off site. Hotwork. Test pit dug, per Langan Geotech, to assess groundwater/dewatering conditions on site.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-4, (Excavation) EA-4, EA-6 (Hotwork) (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

DR-4 device read failure, source 1. Re-zeroed and reinitialized run but failure remained. DR-4 data is from source 2 only.

Planned Activities for Next Work Day:

Trucking to continue per Anthony Rafaniello of Triton.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	23	575								
Totals (trucks, cu.yds.)	150	3750								

Photo Log

Photo 1 –Ramp of residential material in EA-2 at start of day, facing northeast.	
Photo 2 – EA-4 excavated to 10' below second (lower) whaler, facing southeast.	

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Photo 3 – Site after trucking is finished, (1500). Note test pit near center of site filled with water, facing southwest.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32	x	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	25JAN13
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1520

Consultant: Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315 CL (track mounted excavator)
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), 3 Geotechnical Engineers (Langan), Anthony (Triton), William Meli (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Exacavation in EA-1 and EA-2 to surrounding base elevations (10' below second, lower whaler). 18 truckloads of soil transported off site. Hotwork- filled in the windows along the western excavation with foam and grout.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-5. (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

DR-4 device read failure, source 1. Re-zeroed and reinitialized run but failure remained. DR-4 data is from source 2 only.

Planned Activities for Next Work Day:

Hotwork and dewatering to continue. No trucking/excavation for approximately 2 weeks per Anthony Rafaniello.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	18	450								
Totals (trucks, cu.yds.)	168	4200								

Photo Log

Photo 1 – Site conditions at 0700, facing south.	
Photo 2 – Truck entrance/exit, tires on plastic sheeting, facing southwest.	

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Photo 3 – Site conditions at 1500. Notice dewatering system pumping from test pit, facing northeast.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Clear	X
TEMP.	TO 32	X	32-50		50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	04 Feb 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0640-0920

Consultant: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.	Contractor: Triton Construction Equipment: Cat 315 CL track mounted excavator
Safety Officer: Stephanie Frank	

Personnel Onsite: (Langan), Anthony Rafaniello (Triton), William Meli (Triton), Roy (East End), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Working In Grid #: EA-2 & EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Langan was not informed of the need for air monitoring today until late in the day on Friday, 01 Feb 2013. As a result, air monitoring equipment was not available until 0850 today, at which point it was delivered by Pine Equipment and calibrated by Stephanie Frank. Prior to delivery of the equipment, no visible dust was observed as site conditions were very wet. At approximately 0900 all earth work was cancelled for the rest of the day. Consequently, there are no air-monitoring exceedance logs for today.

Chris McMahon (Langan) informed William Meli (Triton) via email on Friday, 01 Feb 2013 not to bring in any material prior to receiving approval from Langan. William Meli authorized three 30-yd trucks of sand to be brought on site on Friday, 01 Feb 2013 against the advisement of Chris McMahon. The required analytical paperwork has not been submitted to Langan for approval. Per Anthony Rafaniello (Triton), he had received permission from William Meli to have the trucks dump the sand on site before he allowed them to dump. Per Chris McMahon, Langan is not permitted to sign any manifests for outgoing material that has been mixed with the sand. Chris McMahon also advised that all material removed going forward should be classified as Non-Residential. William Meli is responsible for the removal of the sand. At this point, it is unknown how or when this will occur.

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Problems Encountered (continued):

The site conditions are wet and the operation of the dewatering system has not been addressed. No additional wells have been installed. Per Anthony Rafaniello, the purpose of the sand was to absorb some of the water so that soil could be hauled out without water leaking from the truck bed. Per Chris McMahon, trucks cannot leave the site with water leaking from the beds and must be lined to prevent this if necessary. Stephanie Frank relayed this information to Anthony Rafaniello.

Planned Activities for Next Work Day:

Tomorrow's activities are dependent on how and when William Meli decides to remove the sand from the site. There will be hot work (welding and grinding) tomorrow, but it is uncertain whether earth work will be performed.

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	168	4200								

LANGAN

Photo Log

Photo 1 – Site conditions at 0705 facing south wall. Excavator beginning to move sand up ramp pile.	
Photo 2 – Sand that was dumped down ramp pile on Friday, 01 Feb 2013.	

Photo 3 – Site conditions at 0900. Photo taken from above on the Highline. Facing west.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Clear	x
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-02-06
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0640-1520

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL Track Mounted Excavator
Safety Officer: Stephanie Frank	

Personnel Onsite: (Langan), Anthony (Triton), William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation was performed in EA-2 and EA-4 for removal of the ramp including sand. All ramp soil that was removed was sent out as non-residential per Chris McMahon.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2 and EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

No earth work will occur tomorrow. Stone will be brought in once approved and trenches will be dug later in the week.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	18	450								
Totals (trucks, cu.yds.)	186	4,650								

Photo Log

Photo 1 – Initial site conditions facing south wall.	
Photo 2 – Excavator digging out ramp pile from site entrance.	

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Photo 3 – Site conditions at end of day taken from the Highline.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow	x	Rain	x	Overcast		Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-02-08
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0650-1030

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL Track Mounted Excavator
Safety Officer: Christine B Madsen	

Personnel Onsite: (Langan), Anthony (Triton), William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation was performed in EA-2 from street level in order to load two trucks for offsite disposal.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

No excavation or truck loading will occur until possibly Wednesday of next week (February 13, 2013).

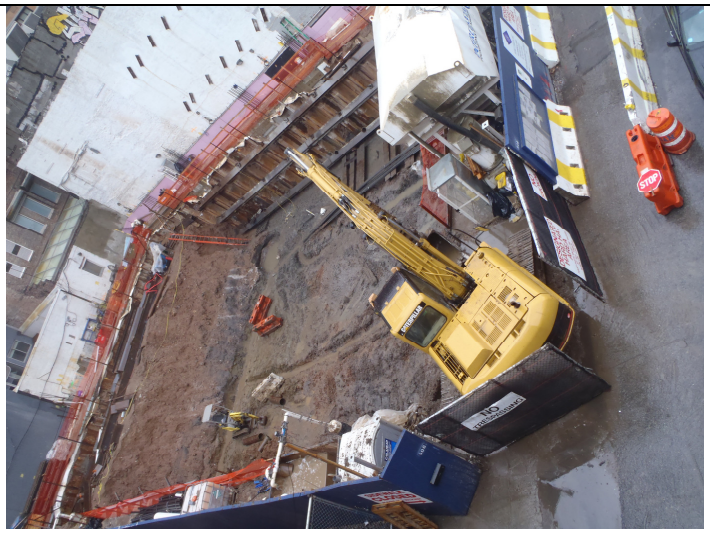
LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	2	50								
Totals (trucks, cu.yds.)	188	4,700								

Photo Log

Photo 1 – Excavator digging out final portion of ramp for offsite disposal, facing northeast.	

LANGAN

Photo 2 –Site at the end of earthwork, facing southwest, taken from Highline Park.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-03-28
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0710-1135

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL Track Mounted Excavator
Safety Officer: Stephanie Frank	

Personnel Onsite: Stephanie Frank (Langan),, William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, Sandy Larimer (Langan)

Work Activities Performed (Since Last Report):

Excavation was performed in EA-2 from street level in order to load two trucks for offsite disposal.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Dewatering system clogged. Pipes were taken apart and emptied of sediment.

Anthony Rafaniello no longer works for Triton. William Meli supervised today.

Planned Activities for Next Work Day:

Excavation and trucking will occur Monday of next week (April 1, 2013).

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	188	4,700								

Photo Log

Photo 1 – Initial site conditions prior to any excavation for the day, facing south.	
Photo 2 – Excavation in EA-6, facing south.	

LANGAN

Photo 3 – Overhead photo of site taken from the Highline when earthwork was complete for the day.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	TO 32		32-50		50-70	X	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-04-01
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 – 1530

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315C (track-mounted excavator)
Safety Officer: Jessica Friscia	

Personnel Onsite: Jessica Friscia (Langan), Jeffrey Vigil (Triton), William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Soil from EA-2, EA-4, and EA-6 were loaded onto trucks and disposed off-site. Soil from EA-4 was excavated to the depth of the concrete slab and disposed off-site. In total, nine loads of soil were removed. Soil along the southern portion of the site in EA-6 was disturbed during support of excavation activities.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavation along southern portion of site (EA-5 and EA-6).

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	9	225								
Totals (trucks, cu.yds.)	197	4,925								

Photo Log

Photo 1 – Soil being excavated for offsite disposal.	
Photo 2 – View of the site from the Highline Park at the end of daily work.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	TO 32		32-50	X	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	2013-04-02
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	1000 – 1530

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315C (track-mounted excavator)
Safety Officer: Jessica Friscia	

Personnel Onsite: Jessica Friscia (Langan), Jeffrey Vigil (Triton), William Meli (Triton), Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):
Soil along the western portion of EA-5 was disturbed to create a trench for the dewatering pump. Soil along the southern portion of the site in EA-5 was excavated and stockpiled separately on EA-1 and EA-3 from 13:00 to 15:00.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-3, EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavation along southern portion of site (EA-5 and EA-6).

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	197	4,925								

Photo Log

Photo 1 – Excavation of EA-6, facing south.	
Photo 2 – Aerial view of EA-6 during excavation.	

LANGAN

Photo 3 – Final view of EA-6 excavation and non-residential soil stockpile, facing southwest.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	3 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1430

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard (Langan), Jeff Vigil, William Meli, and Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, Inspector (Domani Inspection Services)

Work Activities Performed (Since Last Report):

Excavation in EA-6. Hotwork in EA-5 and EA-6. Inspection of welding. Concrete testing. Demobilization of some welding equipment.

The air monitoring exceedance log is attached.

Working In Grid #: EA-5, 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Continue with excavation along southern boundary of site in EA-5 and EA-6 with stockpiling of material in segregated piles for residential and non-residential disposal.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	197	4,925								

Photo Log

Photo 1 – Laying poly sheeting between ramp and new stock pile of residential material, facing west.	
Photo 2 – Excavation around heel blocks in EA-5 and EA-6, facing south.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50	x	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	4 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1515

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: CAT 315CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ransom Hennefer (Langan), Jeff Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers

Work Activities Performed (Since Last Report):

Excavation around heel blocks. Forms constructed for new heel blocks. Concrete poured in new heel blocks.

The air monitoring exceedance log is attached.

Working In Grid #: EA- 4, 5, 6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking of residential material. Compaction around heel blocks.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	---	---								
Totals (trucks, cu.yds.)	197	4,925								

Photo Log

Photo 1 – Construction of heel block forms, facing south.	
Photo 2 – View of ramp and excavation material. Poly sheeting separates known residential material on right from unknown material on left, facing east.	

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Photo 3 – Dewatering pump along northern sheet wall, facing northeast.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy	x	Bright Sun	
TEMP.	TO 32		32-50	x	50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	05 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0710 - 1515

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ramson Hennefer (Langan), Jeff Vigil, William Meli, and Phillip Evangelista (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Trucking of Residential and Non-Residential material. Excavation and compaction around heel blocks.

The air monitoring exceedance log is attached.

Working In Grid #: All (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking of Non-Residential material. Backfill and compaction between and around heel blocks.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	11	275								
Totals (trucks, cu.yds.)	208	5,200								

Photo Log

Photo 1 – Poly sheeting being laid for stockpile of non-residential material on residential side of site, facing east.	
Photo 2 – Stockpiled Non-residential material on poly on residential side of site, facing east.	

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Photo 3 – Site at day's end, taken from High Line Park.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	04-08-2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700-1600

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Excavator Cat 315C
Safety Officer: Ransom Hennefer	

Personnel Onsite: Ransom Hennefer(Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers

Work Activities Performed (Since Last Report):

Excavation occurred in EA-1, EA-3, and EA-5. Material from these areas was stockpiled on plastic in EA-2. EA-5 was excavated down to final depth.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-3, EA-5 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking is planned to remove non-residential material to the TRC Atlas Quarry Facility in PA.

LANGAN

Facility # Name/ location type of waste	Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ									
Today (trucks, cu.yds.)	Trucks	Cu. Yds.								
	0	0								
Totals (trucks, cu.yds.)	208	5,200								

Photo Log

Photo 1 – Soil being stockpiled onto plastic in EA-2.	

LANGAN

DAILY STATUS REPORT

Prepared By:

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70		70-85	x	>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	04-09-2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0645-

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Excavator Cat 315C
Safety Officer: Christine B Madsen	

Personnel Onsite: (Langan), Jeff (Triton), William Meli (Triton), (Intercoastal), Charles Drew (Total Safety Consultants), Intercoastal workers, East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Eight Truckloads of Non-Residential material were removed from the site. EA-1 was excavated to depth and stockpiled for removal. EA-4 and EA-6 was excavated to depth and added to a residential stockpile that is on plastic sheeting.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1,EA-2, EA-4, EA-6 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking is planned to remove non-residential material to the TRC Atlas Quarry Facility in PA, and remove residential material to be trucked to the Lincoln Park Facility in NJ.

LANGAN

Facility # Name/ location type of waste	TRC Atlas Quarry Northampton PA / Non-Residential		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	8	200	0	0						
Totals (trucks, cu.yds.)	8	200	208	5,200						

Photo Log

Photo 1 – Residential material removed from EA-4 and EA-6 was stockpiled on to plastic sheeting.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	11 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0720 - 1515

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Roy and East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Trucking of stockpiled non-residential material from EA-2 and EA-4. Excavation of clay material in EA-1. Preparation for elevator pit slab.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, EA-2, EA-4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking of stockpiled, non-residential material from ramp area to continue (estimated 10 soil loadouts).

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northhampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	16	400	0	0						
Totals (trucks, cu.yds.)	24	600	208	5,200						

Photo Log

Photo 1 – Excavation of clay material in EA-1, facing west.	
Photo 2 – Marking for location of elevator pit, facing south.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	X	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	12 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 1245

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, Roy and Yoel, (East End Excavation), East End Excavation workers

Work Activities Performed (Since Last Report):

Shoveled soil away from dewatering pump bases along the western and northern sheet walls. Two loads of stone dumped on site (51.69 tons total).

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, 2, and 3 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

Heavy rain prevented excavation.

Planned Activities for Next Work Day:

Work planned for Saturday, 13 April 2013. Excavation of native material in elevator pit and behind heel blocks. Trucking planned for Monday, 15 April 2013.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northhampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	0	0	0	0						
Totals (trucks, cu.yds.)	24	600	208	5,200						

Photo Log

Photo 1 – Shoveling of soil and silt from bases of dewatering pumps along western sheet wall, facing southwest.	
Photo 2 – Two loads of stone dumped in EA-2, facing east.	

Photo 3 – Site conditions at day's end, facing south.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50	X	50-70		70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	15 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 1330

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Jessica Friscia	

Personnel Onsite: Jessica Friscia, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, Roy and Yoel, (East End Excavation), East End Excavation workers

Work Activities Performed (Since Last Report):

Excavated elevator pit located in EA-2. Excavated trench around perimeter of EA-1 for dewatering purposes along the western and northern sides.

The air monitoring exceedance log is attached.

Working In Grid #: EA-1, and 2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking of Non-Residential material.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northhampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	0	0	0	0						
Totals (trucks, cu.yds.)	24	600	208	5,200						

Photo Log

Photo 1 – Excavating elevator pit, facing southeast.	
Photo 2 – Creating trench for dewatering, facing northeast.	

LANGAN

Photo 3 – Creating trench for dewatering, facing southwest.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	X	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	15 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 1530

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Jessica Friscia	

Personnel Onsite: Jessica Friscia, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, Roy and Yoel, (East End Excavation), East End Excavation workers

Work Activities Performed (Since Last Report):

Trucking of Non-Residential material from ramp in EA-2.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Trucking of Non-Residential material.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northhampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	15	375	0	0						
Totals (trucks, cu.yds.)	39	975	208	5,200						

Photo Log

Photo 1 – Excavator removing ramp material, facing southeast.	
Photo 2 – Excavator loading truck with ramp material, facing east.	

LANGAN

Photo 3 – Ramp at the end of work-day, facing southeast.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Bright Sun	x
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	17 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0705 - 1615

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Charles Drew (Total Safety Consultants), Intercoastal workers, Roy and East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation and trucking of ramp material, (all material was sent out as non-residential). Rebar cage built and concrete poured in elevator pit.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, 3, 4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Finish all excavation and trucking of material off site.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	10	250	0	0						
Totals (trucks, cu.yds.)	49	1,225	208	5,200						

Photo Log

Photo 1 – Material being excavated for offsite disposal.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	18 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 1430

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Lindsay Deckard	

Personnel Onsite: Lindsay Deckard, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Total Safety Consultant, Roy and East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Excavation and trucking of remaining ramp material (disposed of as non-residential material). Dismantling of elevator pit concrete form.

The air monitoring exceedance log is attached.

Working In Grid #: EA-2, 3, 4 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavation and trucking of historic fill material is completed for the site. No further air monitoring will be required.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	4	100	0	0						
Totals (trucks, cu.yds.)	53	1,325	208	5,200						

Photo Log

Photo 1 – Remainder of ramp material at the start of the day, facing east.	
Photo 2 – Elevator pit, facing south.	

Photo 3 – Site conditions after excavation and trucking is complete, facing north.	

LANGAN

DAILY STATUS REPORT

Prepared By: Lindsay Deckard

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	TO 32		32-50		50-70	x	70-85		>85	

Langan Project No:	100242701	Project:	508 W 24th Street	Date:	23 April 2013
BCP Project No:	12CBCP044M	E-Number:	11EH-N349M	Time:	0700 - 0745

Consultant: Langan Engineering	Contractor: Triton Construction Equipment: Cat 315 CL
Safety Officer: Amanda Forsburg	

Personnel Onsite: Amanda Forsburg, Ransom Hennefer (Langan), Jeffrey Vigil, William Meli, Phillip Evangelista (Triton), Total Safety Consultant, Roy and East End Excavation workers, truck drivers

Work Activities Performed (Since Last Report):

Langan was informed on 22 April 2013 that a small amount of non-residential material remained to be removed from the site on 23 April 2013.

Amanda Forsburg instructed Ransom Hennefer about how to complete the truck manifests. Material hauling was overseen by Ransom Hennefer. Due to the small amount of material and short time period in which work was being completed, no air monitoring equipment was used. No visible dust was observed during offloading.

Working In Grid #: EA-2 (See Excavation Area Grid Map)

Samples Collected (Since Last Report):

N/A

Problems Encountered:

N/A

Planned Activities for Next Work Day:

Excavation and trucking of historic fill material is completed for the site. No further air monitoring will be required.

LANGAN

Facility # Name/ location type of waste	TRC – Atlas Quarry 700 Savage Road Northampton, PA 18067		Lincoln Park West Landfill Closure Site Duncan Avenue Jersey City, NJ							
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.						
	2	50	0	0						
Totals (trucks, cu.yds.)	55	1,375	208	5,200						

Photo Log

Photo 1 – Last of the material to be disposed of offsite at the beginning of the day. Facing northeast.	
Photo 2 – Site conditions after excavation and trucking is complete, facing north.	

APPENDIX B

UST Closure Documentation

LANGAN

Boro Waste Oil, L.L.C

Re: 508 West 24th Street, New York

To Whom it may concern,

Please note that all oil tank scrap metal for the last 8 years for the above address has been delivered to S&A Scrap, located at 5709 Preston Court, Brooklyn, New York.

Thank You.

Sincerely,
Boro Waste Oil, LLC

U.S.D.O.T.#1720604 ** Waste Transport Permit #2A-582 ** U.S. E.P.A. # N.Y. R000149948
28 Champlain Avenue, Staten Island, NY 10306
Phone: (347) 723-7201 Fax: (718) 385-3271

METROPOLITAN
HEAT & POWER COMPANY
INC.

Four Generations...Industrial & Domestic

July 30, 2012

RECEIVED
SEP 06 2012
TRITON

New York City Fire Department
Bureau of Fire Prevention
9 Metrotech Center - 3rd Floor
Brooklyn, N.Y. 11201

RE: 508 West 24th Street New York NY

I hereby certify that I am an Oil-Burning Equipment Installer with License #2689A and Install Test Repair Buried Tanks License # 61830378.

I further certify that the fuel oil storage system at the above premises has been removed and the piping capped or sealed on 07/25/2012.

1. All contents of the storage system have been removed by Boro Waste Oil LLC and the system rendered free of flammable or combustible vapors.

2. All waste was removed from the storage system and has been disposed of in accordance with the applicable city, state and federal requirements.

3. (1) 550 gallon buried fuel oil tank has been removed.

4. All connecting lines have been disconnected and sealed.

I further certify that the storage system has been legally removed in compliance with the Administrative Code of the City of New York and section FC3404 of the NYC Fire Department Rules.

Henry W. Traktman

State of New York}
County of Kings } ss:

Sworn before me this 30th day of July 2012

Notary Public

ROBERT B. TRAKTMAN
Notary Public, State of New York
No. 24-4506935
Qualified in Kings County
My Commission Expires March 30, 2015

820 Coney Island Avenue
Brooklyn, NY 11218

P: 718.941.7600
F: 718.941.7606
W: www.metropolitanheat.com
E: metroheat@metropolitanheat.com

Master Plumber License No. 1341
Oil Burner Installer License No. 2681A

Licensed Oil Tank Tester
Backflow Tester
Air Compressor Tester
Heating Engineers

FAX

BORO WASTE OIL, LLC

28 Champlain Avenue, Staten Island, NY 10306
Telephone: (718) 385-0502 Fax: (718) 385-3271
BoroMechanical@gmail.com

Transporter Permit #2A-582 US DOT #1720604 US EPA #NY R000 149948

To: PHIL EVANGELISTA	**From:** STEVE FUSARO
Fax:	**Pages:**
Phone:	**Date:**
Re:	**cc:**

ATT PHIL

AFFIDAVIT FOR 508 W24ST

ORIGINAL IN THE MAIL

STEVE

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FAX

BORO WASTE OIL, LLC

28 Champlain Avenue, Staten Island, NY 10306
Telephone: (718) 385-0502 Fax: (718) 385-3271
BoroMechanical@gmail.com

Transporter Permit #2A-582 US DOT #1720604 US EPA #NY R000 149948

To:	PHIL EVANGELISTA	**From:**	STEVE FUGNO
Fax:	212-981-3307	**Pages:**	
Phone:		**Date:**	
Re:		**cc:**	

AFFIDAVIT FOR 508 W 24 ST NYC

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METROPOLITAN

HEAT & POWER COMPANY INC.

Four Generations...Industrial & Domestic

October 25, 2012

New York City Fire Department
Bureau of Fire Prevention
9 Metrotech Center - 3rd Floor
Brooklyn, N.Y. 11201

RE: 508 West 24th Street Manhattan NY

I hereby certify that I am an Oil-Burning Equipment Installer with License #2689A and Install Test Repair Buried Tanks License # 6I830378.

I further certify that the fuel oil storage system at the above premises has been removed and the piping sealed on 10/23/2012.

1. All contents of the storage system have been removed by Boro Waste Oil LLC and the system rendered free of flammable or combustible vapors.

2. All waste was removed from the storage system and has been disposed of in accordance with the applicable city, state and federal requirements.

3. (1) 550 gallon buried fuel oil tank has been removed.

4. All connecting lines have been disconnected and sealed. All fill lines have been discontinued, the fill box connection has been sealed with concrete so as to prevent use of fill line.

I further certify that the storage system has been legally removed in compliance with the Administrative Code of the City of New York and section FC3404 of the NYC Fire Department Rules.

Henry W. Traktman

State of New York}
County of Kings } ss:

Sworn before me this 25th day of October 2012

Notary Public

ROBERT B. TRAKTMAN
Notary Public, State of New York
No. 24-4506935
Qualified in Kings County
My Commission Expires March 30, 2015

820 Coney Island Avenue
Brooklyn, NY 11218

P: 718.941.7600
F: 718.941.7606
W: www.metropolitanheat.com
E: metroheat@metropolitanheat.com

Master Plumber License No. 1341
Oil Burner Installer License No. 2681A

Licensed Oil Tank Tester
Backflow Tester
Air Compressor Tester
Heating Engineers

APPENDIX C

Laboratory Data Reports

LANGAN

New Jersey
ACCUTEST LABORATORIES

04/22/14

Technical Report for

Langan Engineering & Environmental

508 West 24th Street, Manhattan, NY

100242701

Accutest Job Number: JB12195

Sampling Date: 07/25/12

Report to:

Langan Engineering & Environmental

aforsburg@Langan.com

ATTN: Amanda Forsburg

Total number of pages in report: **151**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest LabLink@791086 17:11 22-Apr-2014

Sample Summary

Langan Engineering & Environmental

Job No: JB12195

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB12195-1	07/25/12	13:35	AF	07/26/12	SO	Soil	PE-1
JB12195-2	07/25/12	13:41	AF	07/26/12	SO	Soil	PE-2
JB12195-3	07/25/12	13:45	AF	07/26/12	SO	Soil	PE-3
JB12195-4	07/25/12	13:49	AF	07/26/12	SO	Soil	PE-4
JB12195-5	07/25/12	13:55	AF	07/26/12	SO	Soil	PE-5
JB12195-6	07/25/12	00:00	AF	07/26/12	SO	Soil	DUP-1
JB12195-7	07/25/12	14:12	AF	07/26/12	AQ	Field Blank Soil	FB-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Langan Engineering & Environmental	**Job No**	JB12195
Site:	508 West 24th Street, Manhattan, NY	**Report Date**	8/8/2012 6:05:23 PM

On 07/26/2012, 6 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB12195 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V1A5088

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB12384-3DUP, JB12384-2MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB12384-2MS for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** V3C3985

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB12537-10AMS, JB12537-14DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** V3C3986

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB12688-2MS, JB12688-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP58564

- All samples were extracted within the recommended method holding time.
- Sample(s) JB12089-2AMS, JB12089-2AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Caprolactam are outside of in house control limits.
- Matrix Spike Recovery(s) for , 4,6-Dinitro-o-cresol, 4-Bromophenyl phenyl ether, Hexachlorocyclopentadiene, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to matrix interference and dilution.
- Matrix Spike Duplicate Recovery(s) for 4,6-Dinitro-o-cresol, Dibenzo(a,h)anthracene, Hexachlorocyclopentadiene, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to matrix interference and dilution.
- Matrix Spike Recovery(s) for Anthracene, Benzo(a)anthracene, Fluorene, Chrysene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for 4-Bromophenyl phenyl ether, 4-Nitrophenol are outside control limits for sample OP58564-MSD. Outside control limits due to matrix interference and dilution.
- OP58564-MS: Dilution required due to viscosity of extract matrix
- OP58564-MSD: Dilution required due to viscosity of extract matrix

Wet Chemistry By Method SM18 2540G

Matrix: SO	**Batch ID:** GN69988

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB12195
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 07/25/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB12195-1	**PE-1**					
Total TIC, Volatile		10 J			ug/kg	
Pyrene		17.2 J	31	12	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		2020 J			ug/kg	
JB12195-2	**PE-2**					
Total TIC, Volatile		6.7 J			ug/kg	
Total TIC, Semi-Volatile		4500 J			ug/kg	
JB12195-3	**PE-3**					
Total TIC, Volatile		5.9 J			ug/kg	
Pyrene		12.2 J	30	12	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		1070 J			ug/kg	
JB12195-4	**PE-4**					
Acetone		3.8 J	11	1.9	ug/kg	SW846 8260B
Pyrene		13.7 J	31	12	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		1620 J			ug/kg	
JB12195-5	**PE-5**					
Total TIC, Volatile		8.6 J			ug/kg	
Fluoranthene		14.7 J	31	14	ug/kg	SW846 8270D
Pyrene		18.6 J	31	12	ug/kg	SW846 8270D
JB12195-6	**DUP-1**					
Acetone		3.6 J	11	1.9	ug/kg	SW846 8260B
m,p-Xylene		0.36 J	1.1	0.19	ug/kg	SW846 8260B
o-Xylene		0.50 J	1.1	0.15	ug/kg	SW846 8260B
Total TIC, Volatile		790 J			ug/kg	
Total TIC, Semi-Volatile		330 J			ug/kg	
JB12195-7	**FB-1**					

No hits reported in this sample.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PE-1		
Lab Sample ID:	JB12195-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89639.D	1	08/01/12	JTP	07/27/12 10:00	n/a	V3C3985
Run #2							

	Initial Weight
Run #1	3.8 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.4	ug/kg	
71-43-2	Benzene	ND	1.4	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	7.2	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	7.2	0.15	ug/kg	
75-25-2	Bromoform	ND	7.2	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.2	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	7.2	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.2	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	7.2	0.16	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.33	ug/kg	
67-66-3	Chloroform	ND	7.2	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.2	0.27	ug/kg	
110-82-7	Cyclohexane	ND	7.2	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.2	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.2	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.2	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.2	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	0.33	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.2	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.2	0.37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.2	0.26	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.2	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.2	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.2	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.2	0.22	ug/kg	
123-91-1	1,4-Dioxane	ND	180	86	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.38	ug/kg	
76-13-1	Freon 113	ND	7.2	0.62	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-1		
Lab Sample ID:	JB12195-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.2	0.90	ug/kg	
98-82-8	Isopropylbenzene	ND	7.2	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.2	3.8	ug/kg	
108-87-2	Methylcyclohexane	ND	7.2	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.2	1.8	ug/kg	
100-42-5	Styrene	ND	7.2	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.2	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.2	0.25	ug/kg	
108-88-3	Toluene	ND	1.4	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	0.24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.2	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.2	0.25	ug/kg	
79-01-6	Trichloroethene	ND	7.2	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	7.2	0.21	ug/kg	
	m,p-Xylene	ND	1.4	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	93%		70-122%
2037-26-5	Toluene-D8	100%		81-127%
460-00-4	4-Bromofluorobenzene	94%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-37-6	Ethane, 1,1-difluoro-	3.85	10	ug/kg	JN
	Total TIC, Volatile		10	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-1		
Lab Sample ID:	JB12195-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43126.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888
Run #2							

	Initial Weight	Final Volume
Run #1	35.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	49	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	51	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	610	37	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	610	37	ug/kg	
95-48-7	2-Methylphenol	ND	61	35	ug/kg	
	3&4-Methylphenol	ND	61	39	ug/kg	
88-75-5	2-Nitrophenol	ND	150	32	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	52	ug/kg	
108-95-2	Phenol	ND	61	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	29	ug/kg	
83-32-9	Acenaphthene	ND	31	8.9	ug/kg	
208-96-8	Acenaphthylene	ND	31	9.8	ug/kg	
98-86-2	Acetophenone	ND	150	5.4	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	150	6.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31	9.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	61	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	61	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	61	3.6	ug/kg	
100-52-7	Benzaldehyde	ND	150	7.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	61	9.5	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.8	ug/kg	
86-74-8	Carbazole	ND	61	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-1		
Lab Sample ID:	JB12195-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	61	9.6	ug/kg	
218-01-9	Chrysene	ND	31	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	61	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	61	9.2	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	61	9.1	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	61	9.2	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	61	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	61	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	7.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	10	ug/kg	
132-64-9	Dibenzofuran	ND	61	9.1	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	61	6.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	61	15	ug/kg	
84-66-2	Diethyl phthalate	ND	61	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	61	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	61	27	ug/kg	
206-44-0	Fluoranthene	ND	31	13	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	61	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31	11	ug/kg	
78-59-1	Isophorone	ND	61	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	61	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.4	ug/kg	
98-95-3	Nitrobenzene	ND	61	8.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	61	7.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	ND	31	14	ug/kg	
129-00-0	Pyrene	17.2	31	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		21-116%
4165-62-2	Phenol-d5	77%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-1		
Lab Sample ID:	JB12195-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	99%		24-136%
4165-60-0	Nitrobenzene-d5	53%		21-122%
321-60-8	2-Fluorobiphenyl	53%		30-117%
1718-51-0	Terphenyl-d14	76%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.64	380	ug/kg	J
	unknown	6.69	140	ug/kg	J
	unknown	7.44	150	ug/kg	J
	unknown	8.00	220	ug/kg	J
	alkane	9.02	140	ug/kg	J
	unknown	9.23	180	ug/kg	J
	alkane	9.76	230	ug/kg	J
	unknown	10.39	160	ug/kg	J
	unknown	10.71	190	ug/kg	J
	unknown acid	10.78	150	ug/kg	J
	unknown acid	11.90	200	ug/kg	J
	unknown	16.38	260	ug/kg	J
	Total TIC, Semi-Volatile		2020	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-2		
Lab Sample ID:	JB12195-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	92.1
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89640.D	1	08/01/12	JTP	07/27/12 10:00	n/a	V3C3985
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.4	1.6	ug/kg	
71-43-2	Benzene	ND	0.94	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.098	ug/kg	
75-25-2	Bromoform	ND	4.7	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.4	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.21	ug/kg	
67-66-3	Chloroform	ND	4.7	0.077	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.7	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.4	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.94	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.94	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.7	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.7	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.7	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	56	ug/kg	
100-41-4	Ethylbenzene	ND	0.94	0.25	ug/kg	
76-13-1	Freon 113	ND	4.7	0.40	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-2		
Lab Sample ID:	JB12195-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	92.1
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.7	0.58	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	0.070	ug/kg	
79-20-9	Methyl Acetate	ND	4.7	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	4.7	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.94	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	0.70	ug/kg	
75-09-2	Methylene chloride	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.086	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.7	0.16	ug/kg	
108-88-3	Toluene	ND	0.94	0.098	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.099	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.7	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.13	ug/kg	
	m,p-Xylene	ND	0.94	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.94	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	96%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	93%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-37-6	Ethane, 1,1-difluoro-	3.84	6.7	ug/kg	JN
	Total TIC, Volatile		6.7	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-2		
Lab Sample ID:	JB12195-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	92.1
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43125.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888
Run #2							

	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	50	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	52	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	620	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	38	ug/kg	
95-48-7	2-Methylphenol	ND	62	35	ug/kg	
	3&4-Methylphenol	ND	62	39	ug/kg	
88-75-5	2-Nitrophenol	ND	150	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	53	ug/kg	
108-95-2	Phenol	ND	62	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	29	ug/kg	
83-32-9	Acenaphthene	ND	31	8.9	ug/kg	
208-96-8	Acenaphthylene	ND	31	9.8	ug/kg	
98-86-2	Acetophenone	ND	150	5.4	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	150	6.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31	9.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	62	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	62	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	62	3.6	ug/kg	
100-52-7	Benzaldehyde	ND	150	7.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	62	9.5	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.8	ug/kg	
86-74-8	Carbazole	ND	62	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-2		
Lab Sample ID:	JB12195-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	92.1
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	62	9.7	ug/kg	
218-01-9	Chrysene	ND	31	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	62	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	62	9.3	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	62	9.1	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	62	9.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	62	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	62	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	7.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	10	ug/kg	
132-64-9	Dibenzofuran	ND	62	9.1	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	62	6.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	62	15	ug/kg	
84-66-2	Diethyl phthalate	ND	62	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	62	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	62	27	ug/kg	
206-44-0	Fluoranthene	ND	31	14	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	62	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31	11	ug/kg	
78-59-1	Isophorone	ND	62	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	62	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	14	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.4	ug/kg	
98-95-3	Nitrobenzene	ND	62	8.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	62	7.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	ND	31	14	ug/kg	
129-00-0	Pyrene	ND	31	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		21-116%
4165-62-2	Phenol-d5	83%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-2		
Lab Sample ID:	JB12195-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	92.1
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	101%		24-136%
4165-60-0	Nitrobenzene-d5	51%		21-122%
321-60-8	2-Fluorobiphenyl	48%		30-117%
1718-51-0	Terphenyl-d14	83%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.65	320	ug/kg	J
	unknown	12.73	4500	ug/kg	J
	Total TIC, Semi-Volatile		4500	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-3		
Lab Sample ID:	JB12195-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	93.1
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89641.D	1	08/01/12	JTP	07/27/12 10:00	n/a	V3C3985
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.12	ug/kg	
75-25-2	Bromoform	ND	5.8	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.27	ug/kg	
67-66-3	Chloroform	ND	5.8	0.096	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.8	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	69	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.8	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-3		
Lab Sample ID:	JB12195-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	93.1
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.8	0.73	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	0.087	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.8	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	0.88	ug/kg	
75-09-2	Methylene chloride	ND	5.8	1.5	ug/kg	
100-42-5	Styrene	ND	5.8	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.20	ug/kg	
108-88-3	Toluene	ND	1.2	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	96%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	94%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-37-6	Ethane, 1,1-difluoro-	3.85	5.9	ug/kg	JN
	Total TIC, Volatile		5.9	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-3		
Lab Sample ID:	JB12195-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	93.1
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43127.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	49	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	51	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	610	37	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	610	37	ug/kg	
95-48-7	2-Methylphenol	ND	61	35	ug/kg	
	3&4-Methylphenol	ND	61	39	ug/kg	
88-75-5	2-Nitrophenol	ND	150	32	ug/kg	
100-02-7	4-Nitrophenol	ND	300	51	ug/kg	
87-86-5	Pentachlorophenol	ND	300	52	ug/kg	
108-95-2	Phenol	ND	61	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	35	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	29	ug/kg	
83-32-9	Acenaphthene	ND	30	8.8	ug/kg	
208-96-8	Acenaphthylene	ND	30	9.7	ug/kg	
98-86-2	Acetophenone	ND	150	5.3	ug/kg	
120-12-7	Anthracene	ND	30	11	ug/kg	
1912-24-9	Atrazine	ND	150	6.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	30	9.9	ug/kg	
50-32-8	Benzo(a)pyrene	ND	30	9.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	30	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	30	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	30	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	61	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	61	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	61	3.5	ug/kg	
100-52-7	Benzaldehyde	ND	150	7.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	61	9.4	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.7	ug/kg	
86-74-8	Carbazole	ND	61	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-3		
Lab Sample ID:	JB12195-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	93.1
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	61	9.6	ug/kg	
218-01-9	Chrysene	ND	30	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	61	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	61	9.1	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	61	9.0	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	61	9.1	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	61	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	61	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	7.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	30	10	ug/kg	
132-64-9	Dibenzofuran	ND	61	9.0	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	61	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	61	15	ug/kg	
84-66-2	Diethyl phthalate	ND	61	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	61	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	61	27	ug/kg	
206-44-0	Fluoranthene	ND	30	13	ug/kg	
86-73-7	Fluorene	ND	30	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	61	9.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	30	8.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	300	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	30	11	ug/kg	
78-59-1	Isophorone	ND	61	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	61	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	30	8.3	ug/kg	
98-95-3	Nitrobenzene	ND	61	8.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	61	7.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	ND	30	14	ug/kg	
129-00-0	Pyrene	12.2	30	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		21-116%
4165-62-2	Phenol-d5	78%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-3		
Lab Sample ID:	JB12195-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	93.1
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100%		24-136%
4165-60-0	Nitrobenzene-d5	51%		21-122%
321-60-8	2-Fluorobiphenyl	49%		30-117%
1718-51-0	Terphenyl-d14	77%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	1.12	170	ug/kg	J
	system artifact/aldol-condensation	1.64	380	ug/kg	J
	unknown	9.23	140	ug/kg	J
	alkane	9.68	150	ug/kg	J
	alkane	9.76	180	ug/kg	J
	unknown	10.71	130	ug/kg	J
	unknown acid	10.77	170	ug/kg	J
	unknown	16.38	130	ug/kg	J
	Total TIC, Semi-Volatile		1070	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-4		
Lab Sample ID:	JB12195-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89656.D	1	08/02/12	JTP	07/27/12 10:00	n/a	V3C3986
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.8	11	1.9	ug/kg	J
71-43-2	Benzene	ND	1.1	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	0.12	ug/kg	
75-25-2	Bromoform	ND	5.7	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.26	ug/kg	
67-66-3	Chloroform	ND	5.7	0.094	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.7	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.7	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.7	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.7	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.7	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.7	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.7	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	140	68	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.30	ug/kg	
76-13-1	Freon 113	ND	5.7	0.49	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-4		
Lab Sample ID:	JB12195-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.5
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.7	0.71	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	0.085	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.7	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.86	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.4	ug/kg	
100-42-5	Styrene	ND	5.7	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.7	0.20	ug/kg	
108-88-3	Toluene	ND	1.1	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.7	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	100%		81-127%
460-00-4	4-Bromofluorobenzene	93%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-4		
Lab Sample ID:	JB12195-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43154.D	1	07/30/12	OYA	07/27/12	OP58564	E3E1889
Run #2							

	Initial Weight	Final Volume
Run #1	35.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	630	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	630	38	ug/kg	
95-48-7	2-Methylphenol	ND	63	36	ug/kg	
	3&4-Methylphenol	ND	63	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	53	ug/kg	
87-86-5	Pentachlorophenol	ND	310	54	ug/kg	
108-95-2	Phenol	ND	63	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	ND	31	9.1	ug/kg	
208-96-8	Acenaphthylene	ND	31	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.5	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.2	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31	9.6	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	63	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	63	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	63	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	63	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	ND	63	15	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-4		
Lab Sample ID:	JB12195-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.5
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	63	9.9	ug/kg	
218-01-9	Chrysene	ND	31	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	63	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	63	9.5	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	63	9.3	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	63	9.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	63	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	63	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	11	ug/kg	
132-64-9	Dibenzofuran	ND	63	9.3	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	63	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	63	15	ug/kg	
84-66-2	Diethyl phthalate	ND	63	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	63	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	63	28	ug/kg	
206-44-0	Fluoranthene	ND	31	14	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	63	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31	11	ug/kg	
78-59-1	Isophorone	ND	63	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	63	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.6	ug/kg	
98-95-3	Nitrobenzene	ND	63	9.1	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	63	7.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	ND	31	14	ug/kg	
129-00-0	Pyrene	13.7	31	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	68%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-4		
Lab Sample ID:	JB12195-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.5
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-136%
4165-60-0	Nitrobenzene-d5	50%		21-122%
321-60-8	2-Fluorobiphenyl	50%		30-117%
1718-51-0	Terphenyl-d14	66%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	1.37	130	ug/kg	J
	system artifact/aldol-condensation	1.63	520	ug/kg	J
	unknown	6.07	340	ug/kg	J
	unknown	6.67	650	ug/kg	J
	alkane	9.01	190	ug/kg	J
	unknown acid	10.78	180	ug/kg	J
	unknown	11.79	130	ug/kg	J
	Total TIC, Semi-Volatile		1620	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-5		
Lab Sample ID:	JB12195-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89657.D	1	08/02/12	JTP	07/27/12 10:00	n/a	V3C3986
Run #2							

	Initial Weight
Run #1	4.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.5	0.14	ug/kg	
75-25-2	Bromoform	ND	6.5	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.5	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.5	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.5	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.5	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.5	0.30	ug/kg	
67-66-3	Chloroform	ND	6.5	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.5	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.5	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.5	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.5	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.5	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.5	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.5	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.5	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.5	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.5	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.5	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.5	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.5	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.5	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	77	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.5	0.56	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-5		
Lab Sample ID:	JB12195-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.6
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.5	0.81	ug/kg	
98-82-8	Isopropylbenzene	ND	6.5	0.097	ug/kg	
79-20-9	Methyl Acetate	ND	6.5	3.4	ug/kg	
108-87-2	Methylcyclohexane	ND	6.5	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.5	0.98	ug/kg	
75-09-2	Methylene chloride	ND	6.5	1.7	ug/kg	
100-42-5	Styrene	ND	6.5	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.5	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.5	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.5	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.5	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.5	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	6.5	0.19	ug/kg	
	m,p-Xylene	ND	1.3	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	94%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	93%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-37-6	Ethane, 1,1-difluoro-	3.84	8.6	ug/kg	JN
	Total TIC, Volatile		8.6	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-5		
Lab Sample ID:	JB12195-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43128.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	50	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	52	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	620	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	38	ug/kg	
95-48-7	2-Methylphenol	ND	62	35	ug/kg	
	3&4-Methylphenol	ND	62	39	ug/kg	
88-75-5	2-Nitrophenol	ND	150	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	53	ug/kg	
108-95-2	Phenol	ND	62	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	29	ug/kg	
83-32-9	Acenaphthene	ND	31	8.9	ug/kg	
208-96-8	Acenaphthylene	ND	31	9.9	ug/kg	
98-86-2	Acetophenone	ND	150	5.4	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	150	6.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31	9.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	62	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	62	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	62	3.6	ug/kg	
100-52-7	Benzaldehyde	ND	150	7.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	62	9.6	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.9	ug/kg	
86-74-8	Carbazole	ND	62	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-5		
Lab Sample ID:	JB12195-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	62	9.7	ug/kg	
218-01-9	Chrysene	ND	31	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	62	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	62	9.3	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	62	9.2	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	62	9.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	62	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	62	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	7.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	11	ug/kg	
132-64-9	Dibenzofuran	ND	62	9.2	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	62	6.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	62	15	ug/kg	
84-66-2	Diethyl phthalate	ND	62	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	62	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	62	27	ug/kg	
206-44-0	Fluoranthene	14.7	31	14	ug/kg	J
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	62	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31	11	ug/kg	
78-59-1	Isophorone	ND	62	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	62	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	14	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.4	ug/kg	
98-95-3	Nitrobenzene	ND	62	8.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	62	7.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	ND	31	14	ug/kg	
129-00-0	Pyrene	18.6	31	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		21-116%
4165-62-2	Phenol-d5	69%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PE-5		
Lab Sample ID:	JB12195-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96%		24-136%
4165-60-0	Nitrobenzene-d5	54%		21-122%
321-60-8	2-Fluorobiphenyl	51%		30-117%
1718-51-0	Terphenyl-d14	89%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.65	210	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C89658.D	1	08/02/12	JTP	07/27/12 10:00	n/a	V3C3986
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.6	11	1.9	ug/kg	J
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.12	ug/kg	
75-25-2	Bromoform	ND	5.6	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.25	ug/kg	
67-66-3	Chloroform	ND	5.6	0.092	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.6	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.99	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	140	66	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.29	ug/kg	
76-13-1	Freon 113	ND	5.6	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.6	0.69	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.083	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	5.6	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.84	ug/kg	
75-09-2	Methylene chloride	ND	5.6	1.4	ug/kg	
100-42-5	Styrene	ND	5.6	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.19	ug/kg	
108-88-3	Toluene	ND	1.1	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.6	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.16	ug/kg	
	m,p-Xylene	0.36	1.1	0.19	ug/kg	J
95-47-6	o-Xylene	0.50	1.1	0.15	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	96%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	92%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	16.72	30	ug/kg	JN
	alkane	17.27	31	ug/kg	J
	alkane	17.42	57	ug/kg	J
	unknown	17.60	27	ug/kg	J
	alkane	18.01	140	ug/kg	J
	unknown	18.16	32	ug/kg	J
	alkane	18.28	96	ug/kg	J
	unknown	18.60	72	ug/kg	J
	1H-Indene-dihydro-dimethyl	18.80	27	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.04	29	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene tetrahydro-dimethyl	19.38	85	ug/kg	J
	unknown	19.50	37	ug/kg	J
	unknown	19.62	40	ug/kg	J
	unknown	19.74	42	ug/kg	J
	unknown	19.89	45	ug/kg	J
	Total TIC, Volatile		790	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E43129.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	630	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	630	39	ug/kg	
95-48-7	2-Methylphenol	ND	63	36	ug/kg	
	3&4-Methylphenol	ND	63	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	54	ug/kg	
108-95-2	Phenol	ND	63	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	ND	32	9.2	ug/kg	
208-96-8	Acenaphthylene	ND	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	ND	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	32	9.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	63	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	63	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	63	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	63	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	ND	63	15	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	63	10	ug/kg	
218-01-9	Chrysene	ND	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	63	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	63	9.5	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	63	9.4	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	63	9.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	63	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	63	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	32	11	ug/kg	
132-64-9	Dibenzofuran	ND	63	9.4	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	63	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	63	15	ug/kg	
84-66-2	Diethyl phthalate	ND	63	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	63	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	63	28	ug/kg	
206-44-0	Fluoranthene	ND	32	14	ug/kg	
86-73-7	Fluorene	ND	32	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	63	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	32	11	ug/kg	
78-59-1	Isophorone	ND	63	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	63	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	32	8.7	ug/kg	
98-95-3	Nitrobenzene	ND	63	9.2	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	63	7.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	ND	32	14	ug/kg	
129-00-0	Pyrene	ND	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		21-116%
4165-62-2	Phenol-d5	68%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JB12195-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78%		24-136%
4165-60-0	Nitrobenzene-d5	49%		21-122%
321-60-8	2-Fluorobiphenyl	47%		30-117%
1718-51-0	Terphenyl-d14	70%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.65	250	ug/kg	J
	unknown	10.71	150	ug/kg	J
	unknown	16.37	180	ug/kg	J
	Total TIC, Semi-Volatile		330	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JB12195-7	**Date Sampled:**	07/25/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A118484.D	1	08/01/12	CC	n/a	n/a	V1A5088
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JB12195-7	**Date Sampled:**	07/25/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		81-121%
17060-07-0	1,2-Dichloroethane-D4	112%		74-127%
2037-26-5	Toluene-D8	105%		80-122%
460-00-4	4-Bromofluorobenzene	96%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB12195

Client / Reporting Information

Company Name: Langan Engineering
Street Address: 1 Riverview Drive Center 1
City / State / Zip: Elmwood Park, NJ 07407
Project Contact: Chris McMahon
E-mail:
Phone #: 201-398-4535
Fax #:
Sampler(s) Name(s): Amanda Forsburg
Phone #: 201-415-9726

Project Information

Project Name: 508 W 24th St
Street: W 24th St
City / State: Manhattan, NY
Project #: 100242701
Client Purchase Order #:
Project Manager: McCluskey
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Langan #	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TCL VOCs	TCL SVOCs	LAB USE ONLY
-1	PE-1	036	—	7/25/12	1335	amf	SO	4					1			3 4	X	X	
-2	PE-2	037	—	7/25/12	1341	amf	SO	4					1			3 4	X	X	UFC20
-3	PE-3	038	—	7/25/12	1345	amf	SO	4					1			3 4	X	X	14H1
-4	PE-4	039	—	7/25/12	1349	amf	SO	4					1			3 4	X	X	4095
-5	PE-5	040	—	7/25/12	1355	amf	SO	4					1			3 4	X	X	499P
-6	DUP-1	041	—	7/25/12	—	amf	SO	4					1			3 4	X	X	
-7	FB-1	042	—	7/25/12	1412	amf	FB	2	2							2	X		

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL.T1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

-ca only, no paper please

3 ENCORES @ 7/26/12

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Amanda Forsburg	7/25/12 1100	1 Storage	2	7/26/12 1315	2 Chris Lad
Relinquished By Sampler: 3 Chris Lad	Date Time: 7/26/12 1800	Received By: 3 Tray Bee	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [x] Cooler Temp. 4°C

2A

3

JB12195: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB12195 **Client:** **Project:**

Date / Time Received: 7/26/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4/4); 0

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB12195: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB12195

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB12195-1 PE-1	Collected: 25-JUL-12 13:35 By: AF		Received: 26-JUL-12 By: TH			
JB12195-1	SW846 8270D	28-JUL-12 15:39	KLS	27-JUL-12	JL	AB8270TCL11 +
JB12195-1	SW846 8260B	01-AUG-12 19:30	JTP			V8260TCL11 +
JB12195-1	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-2 PE-2	Collected: 25-JUL-12 13:41 By: AF		Received: 26-JUL-12 By: TH			
JB12195-2	SW846 8270D	28-JUL-12 15:14	KLS	27-JUL-12	JL	AB8270TCL11 +
JB12195-2	SW846 8260B	01-AUG-12 19:59	JTP			V8260TCL11 +
JB12195-2	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-3 PE-3	Collected: 25-JUL-12 13:45 By: AF		Received: 26-JUL-12 By: TH			
JB12195-3	SW846 8270D	28-JUL-12 16:04	KLS	27-JUL-12	JL	AB8270TCL11 +
JB12195-3	SW846 8260B	01-AUG-12 20:28	JTP			V8260TCL11 +
JB12195-3	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-4 PE-4	Collected: 25-JUL-12 13:49 By: AF		Received: 26-JUL-12 By: TH			
JB12195-4	SW846 8270D	30-JUL-12 17:27	OYA	27-JUL-12	JL	AB8270TCL11 +
JB12195-4	SW846 8260B	02-AUG-12 16:12	JTP			V8260TCL11 +
JB12195-4	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-5 PE-5	Collected: 25-JUL-12 13:55 By: AF		Received: 26-JUL-12 By: TH			
JB12195-5	SW846 8270D	28-JUL-12 16:28	KLS	27-JUL-12	JL	AB8270TCL11 +
JB12195-5	SW846 8260B	02-AUG-12 16:41	JTP			V8260TCL11 +
JB12195-5	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-6 DUP-1	Collected: 25-JUL-12 00:00 By: AF		Received: 26-JUL-12 By: TH			
JB12195-6	SW846 8270D	28-JUL-12 16:53	KLS	27-JUL-12	JL	AB8270TCL11 +
JB12195-6	SW846 8260B	02-AUG-12 17:11	JTP			V8260TCL11 +

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB12195

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB12195-6	SM18 2540G	06-AUG-12	KP			%SOL
JB12195-7 FB-1	Collected: 25-JUL-12 14:12 By: AF		Received: 26-JUL-12 By: TH			
JB12195-7	SW846 8260B	01-AUG-12 04:40	CC			V8260TCL11 +

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-1.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-1.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-1.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-1.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-1.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-1.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-1.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-1.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-1.1
JB12195-1.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-1.1
JB12195-1.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage
JB12195-1.1.1	Extract Storage	Kristi Schollenberger	07/28/12 12:36	Retrieve from Storage
JB12195-1.1.1	Kristi Schollenberger	GCMS3E	07/28/12 12:36	Load on Instrument
JB12195-1.1.1	GCMS3E	Olga Azarihn	07/30/12 11:13	Unload from Instrument
JB12195-1.1.1	Olga Azarihn	Extract Freezer	07/30/12 11:13	Return to Storage
JB12195-1.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-1.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-1.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-1.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-1.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-1.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-1.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-1.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-1.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-1.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-1.4	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-1.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-1.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-1.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-2.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-2.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-2.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-2.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-2.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-2.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-2.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-2.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-2.1
JB12195-2.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-2.1
JB12195-2.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-2.1.1	Extract Storage	Kristi Schollenberger	07/28/12 12:36	Retrieve from Storage
JB12195-2.1.1	Kristi Schollenberger	GCMS3E	07/28/12 12:36	Load on Instrument
JB12195-2.1.1	GCMS3E	Olga Azarihn	07/30/12 11:13	Unload from Instrument
JB12195-2.1.1	Olga Azarihn	Extract Freezer	07/30/12 11:13	Return to Storage
JB12195-2.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-2.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-2.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-2.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-2.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-2.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-2.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-2.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-2.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-2.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-2.4	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-2.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-2.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-2.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-3.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-3.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-3.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-3.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-3.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-3.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-3.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-3.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-3.1
JB12195-3.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-3.1
JB12195-3.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage
JB12195-3.1.1	Extract Storage	Kristi Schollenberger	07/28/12 12:36	Retrieve from Storage
JB12195-3.1.1	Kristi Schollenberger	GCMS3E	07/28/12 12:36	Load on Instrument
JB12195-3.1.1	GCMS3E	Olga Azarihn	07/30/12 11:13	Unload from Instrument
JB12195-3.1.1	Olga Azarihn	Extract Freezer	07/30/12 11:13	Return to Storage
JB12195-3.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-3.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-3.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-3.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-3.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-3.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-3.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-3.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-3.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-3.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-3.4	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-3.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-3.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-3.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-4.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-4.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-4.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-4.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-4.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-4.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-4.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-4.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-4.1
JB12195-4.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-4.1
JB12195-4.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage
JB12195-4.1.1	Extract Storage	Olga Azarihn	07/30/12 16:09	Retrieve from Storage
JB12195-4.1.1	Olga Azarihn	GCMS3E	07/30/12 16:09	Load on Instrument
JB12195-4.1.1	GCMS3E	Olga Azarihn	07/31/12 09:37	Unload from Instrument
JB12195-4.1.1	Olga Azarihn	Extract Freezer	07/31/12 09:37	Return to Storage
JB12195-4.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-4.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-4.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-4.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-4.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-4.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-4.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-4.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-4.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-4.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-4.4	Secured Storage	Juntae Park	08/02/12 11:34	Retrieve from Storage
JB12195-4.4	Juntae Park	GCMS3C	08/02/12 11:34	Load on Instrument
JB12195-4.4	GCMS3C	Juntae Park	08/03/12 10:17	Unload from Instrument
JB12195-4.4	Juntae Park	Secured Storage	08/03/12 10:17	Return to Storage
JB12195-4.4	Dave Hunkele		08/29/12 06:43	Disposed

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-4.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-4.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-4.5	Secured Storage	Juntae Park	08/02/12 11:34	Retrieve from Storage
JB12195-4.5	Juntae Park	GCMS3C	08/02/12 11:34	Load on Instrument
JB12195-4.5	GCMS3C	Juntae Park	08/03/12 10:17	Unload from Instrument
JB12195-4.5	Juntae Park	Secured Storage	08/03/12 10:17	Return to Storage
JB12195-4.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-5.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-5.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-5.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-5.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-5.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-5.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-5.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-5.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-5.1
JB12195-5.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-5.1
JB12195-5.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage
JB12195-5.1.1	Extract Storage	Kristi Schollenberger	07/28/12 12:36	Retrieve from Storage
JB12195-5.1.1	Kristi Schollenberger	GCMS3E	07/28/12 12:36	Load on Instrument
JB12195-5.1.1	GCMS3E	Olga Azarihn	07/30/12 11:13	Unload from Instrument
JB12195-5.1.1	Olga Azarihn	Extract Freezer	07/30/12 11:13	Return to Storage
JB12195-5.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-5.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-5.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-5.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-5.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-5.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-5.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-5.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-5.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-5.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-5.4	Secured Storage	Juntae Park	08/02/12 11:34	Retrieve from Storage
JB12195-5.4	Juntae Park	GCMS3C	08/02/12 11:34	Load on Instrument
JB12195-5.4	GCMS3C	Juntae Park	08/03/12 10:17	Unload from Instrument
JB12195-5.4	Juntae Park	Secured Storage	08/03/12 10:17	Return to Storage
JB12195-5.4	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-5.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-5.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-5.5	Secured Storage	Juntae Park	08/02/12 11:34	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-5.5	Juntae Park	GCMS3C	08/02/12 11:34	Load on Instrument
JB12195-5.5	GCMS3C	Juntae Park	08/03/12 10:17	Unload from Instrument
JB12195-5.5	Juntae Park	Secured Storage	08/03/12 10:17	Return to Storage
JB12195-5.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-6.1	Secured Storage	Jignasa Patel	07/27/12 08:13	Retrieve from Storage
JB12195-6.1	Jignasa Patel	Secured Storage	07/27/12 16:46	Return to Storage
JB12195-6.1	Secured Storage	Adam Scott	08/06/12 14:22	Retrieve from Storage
JB12195-6.1	Adam Scott	Secured Staging Area	08/06/12 14:23	Return to Storage
JB12195-6.1	Secured Staging Area	Robert OConnor	08/06/12 14:54	Retrieve from Storage
JB12195-6.1	Robert OConnor	Secured Storage	08/06/12 17:25	Return to Storage
JB12195-6.1	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-6.1.1	Jignasa Patel	Organics Prep	07/27/12 08:20	Extract from JB12195-6.1
JB12195-6.1.1	Organics Prep	Janet Lee	07/27/12 16:07	Extract from JB12195-6.1
JB12195-6.1.1	Janet Lee	Extract Storage	07/27/12 16:07	Return to Storage
JB12195-6.1.1	Extract Storage	Kristi Schollenberger	07/28/12 12:36	Retrieve from Storage
JB12195-6.1.1	Kristi Schollenberger	GCMS3E	07/28/12 12:36	Load on Instrument
JB12195-6.1.1	GCMS3E	Olga Azarihn	07/30/12 11:13	Unload from Instrument
JB12195-6.1.1	Olga Azarihn	Extract Freezer	07/30/12 11:13	Return to Storage
JB12195-6.1.1	Extract Freezer		09/06/12 09:00	Disposed
JB12195-6.3	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-6.3	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-6.3	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-6.4	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-6.4	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-6.4	Secured Storage	Juntae Park	08/01/12 12:01	Retrieve from Storage
JB12195-6.4	Juntae Park	GCMS3C	08/01/12 12:01	Load on Instrument
JB12195-6.4	GCMS3C	Juntae Park	08/02/12 10:17	Unload from Instrument
JB12195-6.4	Juntae Park	Secured Storage	08/02/12 10:17	Return to Storage
JB12195-6.4	Secured Storage	Juntae Park	08/02/12 11:34	Retrieve from Storage
JB12195-6.4	Juntae Park	GCMS3C	08/02/12 11:34	Load on Instrument
JB12195-6.4	GCMS3C	Juntae Park	08/03/12 10:17	Unload from Instrument
JB12195-6.4	Juntae Park	Secured Storage	08/03/12 10:17	Return to Storage
JB12195-6.4	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-6.5	Secured Storage	Meng Han	07/27/12 10:16	Retrieve from Storage
JB12195-6.5	Meng Han	Secured Storage	07/27/12 10:23	Return to Storage
JB12195-6.5	Dave Hunkele		08/29/12 06:43	Disposed
JB12195-7.1	Secured Storage	Joseph Ravino	07/31/12 16:53	Retrieve from Storage
JB12195-7.1	Joseph Ravino	GCMS1A	07/31/12 16:53	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 07/26/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB12195-7.1	GCMS1A	Joseph Ravino	08/03/12 08:40	Unload from Instrument
JB12195-7.1	Joseph Ravino	Secured Storage	08/03/12 08:40	Return to Storage
JB12195-7.1	Dave Hunkele		08/29/12 06:43	Disposed

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A5088-MB	1A118472.D	1	07/31/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A5088-MB	1A118472.D	1	07/31/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	81-121%
17060-07-0	1,2-Dichloroethane-D4	103%	74-127%
2037-26-5	Toluene-D8	103%	80-122%
460-00-4	4-Bromofluorobenzene	94%	78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3985-MB	3C89626.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3985-MB	3C89626.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	94%	70-122%
2037-26-5	Toluene-D8	100%	81-127%
460-00-4	4-Bromofluorobenzene	92%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3986-MB	3C89645.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3986-MB	3C89645.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	91%	70-122%
2037-26-5	Toluene-D8	99%	81-127%
460-00-4	4-Bromofluorobenzene	93%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A5088-BS	1A118473.D	1	07/31/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	56.4	113	39-152
71-43-2	Benzene	50	49.7	99	79-116
74-97-5	Bromochloromethane	50	51.4	103	82-123
75-27-4	Bromodichloromethane	50	57.0	114	83-125
75-25-2	Bromoform	50	52.8	106	74-133
74-83-9	Bromomethane	50	51.6	103	63-139
78-93-3	2-Butanone (MEK)	50	47.8	96	63-137
75-15-0	Carbon disulfide	50	47.1	94	67-126
56-23-5	Carbon tetrachloride	50	58.3	117	79-137
108-90-7	Chlorobenzene	50	52.1	104	83-118
75-00-3	Chloroethane	50	56.8	114	66-135
67-66-3	Chloroform	50	54.3	109	82-124
74-87-3	Chloromethane	50	55.9	112	52-136
110-82-7	Cyclohexane	50	48.8	98	73-122
96-12-8	1,2-Dibromo-3-chloropropane	50	55.3	111	66-128
124-48-1	Dibromochloromethane	50	54.3	109	77-127
106-93-4	1,2-Dibromoethane	50	51.2	102	77-125
95-50-1	1,2-Dichlorobenzene	50	52.2	104	81-119
541-73-1	1,3-Dichlorobenzene	50	49.4	99	82-119
106-46-7	1,4-Dichlorobenzene	50	49.0	98	78-118
75-71-8	Dichlorodifluoromethane	50	53.2	106	40-146
75-34-3	1,1-Dichloroethane	50	56.2	112	78-126
107-06-2	1,2-Dichloroethane	50	58.8	118	75-133
75-35-4	1,1-Dichloroethene	50	48.4	97	75-124
156-59-2	cis-1,2-Dichloroethene	50	49.8	100	74-132
156-60-5	trans-1,2-Dichloroethene	50	46.4	93	68-125
78-87-5	1,2-Dichloropropane	50	51.9	104	79-119
10061-01-5	cis-1,3-Dichloropropene	50	50.8	102	80-118
10061-02-6	trans-1,3-Dichloropropene	50	54.2	108	76-124
123-91-1	1,4-Dioxane	1250	1130	90	58-147
100-41-4	Ethylbenzene	50	51.3	103	81-118
76-13-1	Freon 113	50	54.1	108	72-138
591-78-6	2-Hexanone	50	49.5	99	61-130
98-82-8	Isopropylbenzene	50	52.6	105	74-123
79-20-9	Methyl Acetate	50	55.2	110	57-126
108-87-2	Methylcyclohexane	50	54.1	108	73-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A5088-BS	1A118473.D	1	07/31/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	110	110	77-120
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.7	107	71-127
75-09-2	Methylene chloride	50	47.9	96	77-120
100-42-5	Styrene	50	50.4	101	81-120
79-34-5	1,1,2,2-Tetrachloroethane	50	47.6	95	71-116
127-18-4	Tetrachloroethene	50	53.4	107	60-159
108-88-3	Toluene	50	52.3	105	82-119
87-61-6	1,2,3-Trichlorobenzene	50	50.6	101	75-129
120-82-1	1,2,4-Trichlorobenzene	50	55.8	112	79-131
71-55-6	1,1,1-Trichloroethane	50	56.7	113	81-131
79-00-5	1,1,2-Trichloroethane	50	53.5	107	81-119
79-01-6	Trichloroethene	50	54.0	108	84-122
75-69-4	Trichlorofluoromethane	50	60.7	121	71-142
75-01-4	Vinyl chloride	50	56.8	114	64-133
	m,p-Xylene	100	98.2	98	81-119
95-47-6	o-Xylene	50	51.7	103	83-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	81-121%
17060-07-0	1,2-Dichloroethane-D4	107%	74-127%
2037-26-5	Toluene-D8	105%	80-122%
460-00-4	4-Bromofluorobenzene	98%	78-116%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3985-BS	3C89627.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	43.1	86	31-168
71-43-2	Benzene	50	45.8	92	76-117
74-97-5	Bromochloromethane	50	49.9	100	79-128
75-27-4	Bromodichloromethane	50	51.1	102	78-128
75-25-2	Bromoform	50	52.6	105	71-138
74-83-9	Bromomethane	50	47.4	95	55-145
78-93-3	2-Butanone (MEK)	50	46.1	92	55-149
75-15-0	Carbon disulfide	50	46.6	93	65-132
56-23-5	Carbon tetrachloride	50	47.9	96	70-140
108-90-7	Chlorobenzene	50	46.1	92	78-120
75-00-3	Chloroethane	50	40.1	80	62-139
67-66-3	Chloroform	50	47.7	95	78-124
74-87-3	Chloromethane	50	38.0	76	50-132
110-82-7	Cyclohexane	50	47.1	94	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	41.6	83	61-132
124-48-1	Dibromochloromethane	50	51.3	103	75-128
106-93-4	1,2-Dibromoethane	50	48.7	97	77-122
95-50-1	1,2-Dichlorobenzene	50	45.7	91	76-119
541-73-1	1,3-Dichlorobenzene	50	44.9	90	75-120
106-46-7	1,4-Dichlorobenzene	50	44.9	90	72-113
75-71-8	Dichlorodifluoromethane	50	43.0	86	41-138
75-34-3	1,1-Dichloroethane	50	47.5	95	75-127
107-06-2	1,2-Dichloroethane	50	47.9	96	68-134
75-35-4	1,1-Dichloroethene	50	44.9	90	73-127
156-59-2	cis-1,2-Dichloroethene	50	46.5	93	77-121
156-60-5	trans-1,2-Dichloroethene	50	46.1	92	76-123
78-87-5	1,2-Dichloropropane	50	47.4	95	75-121
10061-01-5	cis-1,3-Dichloropropene	50	50.2	100	76-122
10061-02-6	trans-1,3-Dichloropropene	50	51.1	102	75-126
123-91-1	1,4-Dioxane	1250	1270	102	59-135
100-41-4	Ethylbenzene	50	44.6	89	74-119
76-13-1	Freon 113	50	43.4	87	62-141
591-78-6	2-Hexanone	50	42.9	86	60-136
98-82-8	Isopropylbenzene	50	43.9	88	71-119
79-20-9	Methyl Acetate	50	42.8	86	50-134
108-87-2	Methylcyclohexane	50	43.3	87	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3985-BS	3C89627.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	90.8	91	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	44.2	88	68-134
75-09-2	Methylene chloride	50	47.2	94	72-120
100-42-5	Styrene	50	48.5	97	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	44.0	88	67-117
127-18-4	Tetrachloroethene	50	46.6	93	63-146
108-88-3	Toluene	50	44.8	90	77-121
87-61-6	1,2,3-Trichlorobenzene	50	46.9	94	64-131
120-82-1	1,2,4-Trichlorobenzene	50	46.8	94	65-132
71-55-6	1,1,1-Trichloroethane	50	48.9	98	74-133
79-00-5	1,1,2-Trichloroethane	50	47.3	95	76-124
79-01-6	Trichloroethene	50	46.4	93	79-124
75-69-4	Trichlorofluoromethane	50	42.2	84	61-147
75-01-4	Vinyl chloride	50	38.4	77	57-138
	m,p-Xylene	100	88.7	89	75-119
95-47-6	o-Xylene	50	46.0	92	77-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	93%	70-122%
2037-26-5	Toluene-D8	103%	81-127%
460-00-4	4-Bromofluorobenzene	91%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3986-BS	3C89646.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	48.7	97	31-168
71-43-2	Benzene	50	46.0	92	76-117
74-97-5	Bromochloromethane	50	52.3	105	79-128
75-27-4	Bromodichloromethane	50	53.2	106	78-128
75-25-2	Bromoform	50	57.9	116	71-138
74-83-9	Bromomethane	50	46.7	93	55-145
78-93-3	2-Butanone (MEK)	50	53.5	107	55-149
75-15-0	Carbon disulfide	50	46.5	93	65-132
56-23-5	Carbon tetrachloride	50	47.4	95	70-140
108-90-7	Chlorobenzene	50	46.6	93	78-120
75-00-3	Chloroethane	50	39.4	79	62-139
67-66-3	Chloroform	50	48.6	97	78-124
74-87-3	Chloromethane	50	37.0	74	50-132
110-82-7	Cyclohexane	50	46.3	93	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	47.5	95	61-132
124-48-1	Dibromochloromethane	50	54.6	109	75-128
106-93-4	1,2-Dibromoethane	50	52.3	105	77-122
95-50-1	1,2-Dichlorobenzene	50	46.7	93	76-119
541-73-1	1,3-Dichlorobenzene	50	45.2	90	75-120
106-46-7	1,4-Dichlorobenzene	50	44.9	90	72-113
75-71-8	Dichlorodifluoromethane	50	42.0	84	41-138
75-34-3	1,1-Dichloroethane	50	48.4	97	75-127
107-06-2	1,2-Dichloroethane	50	50.8	102	68-134
75-35-4	1,1-Dichloroethene	50	44.2	88	73-127
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	77-121
156-60-5	trans-1,2-Dichloroethene	50	46.0	92	76-123
78-87-5	1,2-Dichloropropane	50	48.4	97	75-121
10061-01-5	cis-1,3-Dichloropropene	50	52.4	105	76-122
10061-02-6	trans-1,3-Dichloropropene	50	54.6	109	75-126
123-91-1	1,4-Dioxane	1250	1160	93	59-135
100-41-4	Ethylbenzene	50	44.0	88	74-119
76-13-1	Freon 113	50	42.4	85	62-141
591-78-6	2-Hexanone	50	51.4	103	60-136
98-82-8	Isopropylbenzene	50	43.1	86	71-119
79-20-9	Methyl Acetate	50	47.5	95	50-134
108-87-2	Methylcyclohexane	50	44.0	88	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C3986-BS	3C89646.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	101	101	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.6	103	68-134
75-09-2	Methylene chloride	50	48.6	97	72-120
100-42-5	Styrene	50	49.0	98	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	67-117
127-18-4	Tetrachloroethene	50	45.6	91	63-146
108-88-3	Toluene	50	44.6	89	77-121
87-61-6	1,2,3-Trichlorobenzene	50	49.6	99	64-131
120-82-1	1,2,4-Trichlorobenzene	50	48.9	98	65-132
71-55-6	1,1,1-Trichloroethane	50	49.0	98	74-133
79-00-5	1,1,2-Trichloroethane	50	51.0	102	76-124
79-01-6	Trichloroethene	50	46.5	93	79-124
75-69-4	Trichlorofluoromethane	50	40.4	81	61-147
75-01-4	Vinyl chloride	50	37.1	74	57-138
	m,p-Xylene	100	87.8	88	75-119
95-47-6	o-Xylene	50	46.0	92	77-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-122%
2037-26-5	Toluene-D8	103%	81-127%
460-00-4	4-Bromofluorobenzene	92%	66-132%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12384-2MS	1A118474.D	1	07/31/12	CC	n/a	n/a	V1A5088
JB12384-2	1A118478.D	1	08/01/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	JB12384-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	58.5	117	34-156
71-43-2	Benzene	6.4		50	52.6	92	48-138
74-97-5	Bromochloromethane	ND		50	51.9	104	76-131
75-27-4	Bromodichloromethane	ND		50	57.8	116	74-130
75-25-2	Bromoform	ND		50	53.5	107	66-136
74-83-9	Bromomethane	ND		50	45.6	91	55-146
78-93-3	2-Butanone (MEK)	ND		50	49.6	99	56-144
75-15-0	Carbon disulfide	ND		50	47.1	94	44-141
56-23-5	Carbon tetrachloride	ND		50	55.4	111	58-151
108-90-7	Chlorobenzene	ND		50	51.9	104	70-128
75-00-3	Chloroethane	ND		50	50.9	102	54-144
67-66-3	Chloroform	ND		50	52.4	105	69-132
74-87-3	Chloromethane	ND		50	52.7	105	45-146
110-82-7	Cyclohexane	3.2	J	50	44.7	83	46-142
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	56.7	113	62-133
124-48-1	Dibromochloromethane	ND		50	55.8	112	71-132
106-93-4	1,2-Dibromoethane	ND		50	53.1	106	73-130
95-50-1	1,2-Dichlorobenzene	ND		50	53.8	108	73-126
541-73-1	1,3-Dichlorobenzene	ND		50	49.6	99	72-126
106-46-7	1,4-Dichlorobenzene	ND		50	51.0	102	70-124
75-71-8	Dichlorodifluoromethane	ND		50	55.8	112	33-161
75-34-3	1,1-Dichloroethane	ND		50	54.4	109	63-134
107-06-2	1,2-Dichloroethane	ND		50	58.9	118	68-139
75-35-4	1,1-Dichloroethene	ND		50	47.2	94	52-142
156-59-2	cis-1,2-Dichloroethene	ND		50	49.5	99	59-137
156-60-5	trans-1,2-Dichloroethene	ND		50	47.3	95	60-134
78-87-5	1,2-Dichloropropane	ND		50	53.4	107	70-126
10061-01-5	cis-1,3-Dichloropropene	ND		50	56.2	112	74-125
10061-02-6	trans-1,3-Dichloropropene	ND		50	54.7	109	71-127
123-91-1	1,4-Dioxane	ND		1250	1150	92	56-152
100-41-4	Ethylbenzene	4.3		50	53.1	98	48-139
76-13-1	Freon 113	ND		50	49.4	99	49-156
591-78-6	2-Hexanone	ND		50	54.2	108	59-135
98-82-8	Isopropylbenzene	2.6		50	53.6	102	61-135
79-20-9	Methyl Acetate	ND		50	57.6	115	51-138
108-87-2	Methylcyclohexane	5.1		50	47.2	84	47-145

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12384-2MS	1A118474.D	1	07/31/12	CC	n/a	n/a	V1A5088
JB12384-2	1A118478.D	1	08/01/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	JB12384-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
1634-04-4	Methyl Tert Butyl Ether	7.2		50	60.5	107	63-133
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	56.2	112	66-134
75-09-2	Methylene chloride	ND		50	48.4	97	68-129
100-42-5	Styrene	ND		50	51.1	102	66-132
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.0	106	69-124
127-18-4	Tetrachloroethene	ND		50	52.0	104	57-144
108-88-3	Toluene	ND		50	52.6	105	55-138
87-61-6	1,2,3-Trichlorobenzene	ND		50	51.5	103	67-133
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.8	106	68-133
71-55-6	1,1,1-Trichloroethane	ND		50	54.5	109	61-146
79-00-5	1,1,2-Trichloroethane	ND		50	55.9	112	75-125
79-01-6	Trichloroethene	ND		50	53.2	106	59-140
75-69-4	Trichlorofluoromethane	ND		50	53.1	106	49-158
75-01-4	Vinyl chloride	ND		50	51.9	104	45-150
	m,p-Xylene	3.7		100	101	97	47-141
95-47-6	o-Xylene	1.3		50	51.4	100	58-136

CAS No.	Surrogate Recoveries	MS	JB12384-2	Limits
1868-53-7	Dibromofluoromethane	108%	108%	81-121%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	74-127%
2037-26-5	Toluene-D8	106%	103%	80-122%
460-00-4	4-Bromofluorobenzene	125%* [a]	104%	78-116%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12537-10AMS	3C89632.D	1	08/01/12	JTP	n/a	n/a	V3C3985
JB12537-10A	3C89630.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	JB12537-10A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	15.2		50	32.1	34	10-198
71-43-2	Benzene	ND		50	44.5	89	44-130
74-97-5	Bromochloromethane	ND		50	40.2	80	52-136
75-27-4	Bromodichloromethane	ND		50	43.8	88	43-141
75-25-2	Bromoform	ND		50	36.7	73	34-149
74-83-9	Bromomethane	ND		50	46.8	94	10-159
78-93-3	2-Butanone (MEK)	4.5	J	50	30.7	52	27-174
75-15-0	Carbon disulfide	ND		50	43.4	87	36-140
56-23-5	Carbon tetrachloride	ND		50	43.6	87	33-153
108-90-7	Chlorobenzene	ND		50	45.0	90	35-137
75-00-3	Chloroethane	ND		50	42.0	84	29-146
67-66-3	Chloroform	ND		50	42.1	84	49-133
74-87-3	Chloromethane	ND		50	37.0	74	36-140
110-82-7	Cyclohexane	ND		50	44.3	89	24-149
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	27.7	55	24-149
124-48-1	Dibromochloromethane	ND		50	40.6	81	40-142
106-93-4	1,2-Dibromoethane	ND		50	37.2	74	41-139
95-50-1	1,2-Dichlorobenzene	0.31	J	50	42.5	84	23-141
541-73-1	1,3-Dichlorobenzene	ND		50	43.5	87	22-141
106-46-7	1,4-Dichlorobenzene	ND		50	42.9	86	21-136
75-71-8	Dichlorodifluoromethane	ND		50	37.1	74	24-162
75-34-3	1,1-Dichloroethane	ND		50	43.8	88	48-132
107-06-2	1,2-Dichloroethane	ND		50	37.8	76	43-139
75-35-4	1,1-Dichloroethene	ND		50	41.7	83	42-139
156-59-2	cis-1,2-Dichloroethene	ND		50	42.6	85	46-132
156-60-5	trans-1,2-Dichloroethene	ND		50	43.1	86	44-135
78-87-5	1,2-Dichloropropane	ND		50	44.2	88	45-130
10061-01-5	cis-1,3-Dichloropropene	ND		50	44.5	89	43-133
10061-02-6	trans-1,3-Dichloropropene	ND		50	42.4	85	41-138
123-91-1	1,4-Dioxane	ND		1250	1290	103	38-159
100-41-4	Ethylbenzene	ND		50	44.0	88	29-137
76-13-1	Freon 113	ND		50	44.2	88	28-154
591-78-6	2-Hexanone	ND		50	28.1	56	25-161
98-82-8	Isopropylbenzene	0.27	J	50	45.4	90	27-138
79-20-9	Methyl Acetate	ND		50	28.8	58	26-173
108-87-2	Methylcyclohexane	ND		50	41.8	84	16-150

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12537-10AMS	3C89632.D	1	08/01/12	JTP	n/a	n/a	V3C3985
JB12537-10A	3C89630.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	JB12537-10A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
1634-04-4	Methyl Tert Butyl Ether	ND		50	35.9	72	51-128
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	29.3	59	39-143
75-09-2	Methylene chloride	4.3	J	50	44.3	80	50-125
100-42-5	Styrene	ND		50	46.4	93	27-146
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	34.2	68	36-130
127-18-4	Tetrachloroethene	ND		50	46.0	92	20-173
108-88-3	Toluene	ND		50	44.1	88	40-135
87-61-6	1,2,3-Trichlorobenzene	ND		50	38.1	76	10-155
120-82-1	1,2,4-Trichlorobenzene	ND		50	40.4	81	10-152
71-55-6	1,1,1-Trichloroethane	ND		50	44.3	89	41-145
79-00-5	1,1,2-Trichloroethane	ND		50	38.0	76	45-137
79-01-6	Trichloroethene	ND		50	44.9	90	35-149
75-69-4	Trichlorofluoromethane	ND		50	38.3	77	26-164
75-01-4	Vinyl chloride	ND		50	38.9	78	36-150
	m,p-Xylene	ND		99.9	87.2	87	28-139
95-47-6	o-Xylene	ND		50	45.0	90	31-139

CAS No.	Surrogate Recoveries	MS	JB12537-10A	Limits
1868-53-7	Dibromofluoromethane	91%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	73%	93%	70-122%
2037-26-5	Toluene-D8	104%	100%	81-127%
460-00-4	4-Bromofluorobenzene	92%	95%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12688-2MS	3C89653.D	1	08/02/12	JTP	n/a	n/a	V3C3986
JB12688-2MSD	3C89654.D	1	08/02/12	JTP	n/a	n/a	V3C3986
JB12688-2	3C89648.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	JB12688-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	5.6	J	66.9	41.3	53	66.9	43.2	56	4	10-198/35
71-43-2	Benzene	18.8		66.9	77.0	87	66.9	72.2	80	6	44-130/21
74-97-5	Bromochloromethane	ND		66.9	53.3	80	66.9	51.5	77	3	52-136/19
75-27-4	Bromodichloromethane	ND		66.9	57.2	86	66.9	54.1	81	6	43-141/20
75-25-2	Bromoform	ND		66.9	51.0	76	66.9	50.7	76	1	34-149/22
74-83-9	Bromomethane	ND		66.9	56.2	84	66.9	52.4	78	7	10-159/28
78-93-3	2-Butanone (MEK)	ND		66.9	40.6	61	66.9	43.7	65	7	27-174/31
75-15-0	Carbon disulfide	ND		66.9	50.0	75	66.9	46.3	69	8	36-140/25
56-23-5	Carbon tetrachloride	ND		66.9	51.6	77	66.9	46.6	70	10	33-153/22
108-90-7	Chlorobenzene	ND		66.9	52.4	78	66.9	48.7	73	7	35-137/23
75-00-3	Chloroethane	ND		66.9	46.8	70	66.9	43.8	66	7	29-146/27
67-66-3	Chloroform	ND		66.9	54.3	81	66.9	50.1	75	8	49-133/21
74-87-3	Chloromethane	ND		66.9	43.2	65	66.9	40.7	61	6	36-140/23
110-82-7	Cyclohexane	1.5	J	66.9	52.0	76	66.9	47.2	68	10	24-149/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		66.9	38.6	58	66.9	41.6	62	7	24-149/26
124-48-1	Dibromochloromethane	ND		66.9	54.3	81	66.9	52.5	79	3	40-142/21
106-93-4	1,2-Dibromoethane	ND		66.9	49.3	74	66.9	49.7	74	1	41-139/21
95-50-1	1,2-Dichlorobenzene	ND		66.9	50.4	75	66.9	46.7	70	8	23-141/27
541-73-1	1,3-Dichlorobenzene	ND		66.9	50.9	76	66.9	45.5	68	11	22-141/27
106-46-7	1,4-Dichlorobenzene	ND		66.9	50.0	75	66.9	45.7	68	9	21-136/26
75-71-8	Dichlorodifluoromethane	ND		66.9	46.6	70	66.9	42.0	63	10	24-162/25
75-34-3	1,1-Dichloroethane	ND		66.9	53.8	80	66.9	50.1	75	7	48-132/20
107-06-2	1,2-Dichloroethane	ND		66.9	52.5	79	66.9	50.1	75	5	43-139/19
75-35-4	1,1-Dichloroethene	ND		66.9	48.0	72	66.9	44.3	66	8	42-139/23
156-59-2	cis-1,2-Dichloroethene	ND		66.9	52.1	78	66.9	48.7	73	7	46-132/21
156-60-5	trans-1,2-Dichloroethene	ND		66.9	50.5	76	66.9	46.8	70	8	44-135/22
78-87-5	1,2-Dichloropropane	ND		66.9	53.7	80	66.9	51.4	77	4	45-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		66.9	55.3	83	66.9	53.1	79	4	43-133/23
10061-02-6	trans-1,3-Dichloropropene	ND		66.9	54.2	81	66.9	53.0	79	2	41-138/23
123-91-1	1,4-Dioxane	ND		1670	1910	114	1670	1770	106	8	38-159/35
100-41-4	Ethylbenzene	27.3		66.9	83.2	84	66.9	78.1	76	6	29-137/25
76-13-1	Freon 113	ND		66.9	53.3	80	66.9	48.6	73	9	28-154/28
591-78-6	2-Hexanone	ND		66.9	37.0	55	66.9	41.9	63	12	25-161/28
98-82-8	Isopropylbenzene	1.2	J	66.9	52.3	76	66.9	47.5	69	10	27-138/26
79-20-9	Methyl Acetate	ND		66.9	43.9	66	66.9	46.8	70	6	26-173/30
108-87-2	Methylcyclohexane	2.1	J	66.9	52.0	75	66.9	47.1	67	10	16-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12688-2MS	3C89653.D	1	08/02/12	JTP	n/a	n/a	V3C3986
JB12688-2MSD	3C89654.D	1	08/02/12	JTP	n/a	n/a	V3C3986
JB12688-2	3C89648.D	1	08/02/12	JTP	n/a	n/a	V3C3986

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	JB12688-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	0.79	J	66.9	51.1	75	66.9	51.4	76	1	51-128/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		66.9	39.5	59	66.9	43.3	65	9	39-143/22
75-09-2	Methylene chloride	ND		66.9	52.9	79	66.9	50.4	75	5	50-125/20
100-42-5	Styrene	ND		66.9	54.9	82	66.9	51.2	77	7	27-146/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		66.9	44.3	66	66.9	45.8	69	3	36-130/27
127-18-4	Tetrachloroethene	ND		66.9	52.9	79	66.9	52.7	79	0	20-173/26
108-88-3	Toluene	123		66.9	209	129	66.9	202	118	3	40-135/22
87-61-6	1,2,3-Trichlorobenzene	ND		66.9	45.9	69	66.9	40.6	61	12	10-155/34
120-82-1	1,2,4-Trichlorobenzene	ND		66.9	48.2	72	66.9	41.3	62	15	10-152/34
71-55-6	1,1,1-Trichloroethane	ND		66.9	54.0	81	66.9	48.8	73	10	41-145/22
79-00-5	1,1,2-Trichloroethane	ND		66.9	49.0	73	66.9	49.3	74	1	45-137/21
79-01-6	Trichloroethene	ND		66.9	52.0	78	66.9	48.2	72	8	35-149/23
75-69-4	Trichlorofluoromethane	ND		66.9	46.9	70	66.9	41.7	62	12	26-164/25
75-01-4	Vinyl chloride	ND		66.9	42.8	64	66.9	40.5	61	6	36-150/23
	m,p-Xylene	103		134	219	87	134	208	79	5	28-139/26
95-47-6	o-Xylene	41.8		66.9	101	89	66.9	95.7	81	5	31-139/24

CAS No.	Surrogate Recoveries	MS	MSD	JB12688-2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	84%	86%	97%	70-122%
2037-26-5	Toluene-D8	103%	103%	101%	81-127%
460-00-4	4-Bromofluorobenzene	94%	94%	93%	66-132%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12384-3DUP	1A118479.D	1	08/01/12	CC	n/a	n/a	V1A5088
JB12384-3	1A118480.D	1	08/01/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	JB12384-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	10
71-43-2	Benzene	ND		ND		nc	15
74-97-5	Bromochloromethane	ND		ND		nc	10
75-27-4	Bromodichloromethane	ND		ND		nc	10
75-25-2	Bromoform	ND		ND		nc	10
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	10
75-15-0	Carbon disulfide	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	10
108-90-7	Chlorobenzene	ND		ND		nc	10
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	10
74-87-3	Chloromethane	ND		ND		nc	10
110-82-7	Cyclohexane	ND		ND		nc	10
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	10
124-48-1	Dibromochloromethane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	10
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	10
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	ND		ND		nc	10
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	10
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	10
78-87-5	1,2-Dichloropropane	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	10
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	10
123-91-1	1,4-Dioxane	ND		ND		nc	10
100-41-4	Ethylbenzene	ND		ND		nc	11
76-13-1	Freon 113	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	13
79-20-9	Methyl Acetate	ND		ND		nc	10
108-87-2	Methylcyclohexane	ND		ND		nc	11

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12384-3DUP	1A118479.D	1	08/01/12	CC	n/a	n/a	V1A5088
JB12384-3	1A118480.D	1	08/01/12	CC	n/a	n/a	V1A5088

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-7

CAS No.	Compound	JB12384-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
1634-04-4	Methyl Tert Butyl Ether	0.36	J	0.35	J	3	19
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	13
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	10
75-69-4	Trichlorofluoromethane	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	10
	m,p-Xylene	ND		ND		nc	13
95-47-6	o-Xylene	ND		ND		nc	14

CAS No.	Surrogate Recoveries	DUP	JB12384-3	Limits
1868-53-7	Dibromofluoromethane	106%	105%	81-121%
17060-07-0	1,2-Dichloroethane-D4	106%	104%	74-127%
2037-26-5	Toluene-D8	103%	104%	80-122%
460-00-4	4-Bromofluorobenzene	95%	96%	78-116%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12537-14DUP	3C89634.D	1	08/01/12	JTP	n/a	n/a	V3C3985
JB12537-14	3C89629.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	JB12537-14 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	7.5	J	6.0	J	22	34
71-43-2	Benzene	ND		ND		nc	15
74-97-5	Bromochloromethane	ND		ND		nc	10
75-27-4	Bromodichloromethane	ND		ND		nc	10
75-25-2	Bromoform	ND		ND		nc	10
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	14
75-15-0	Carbon disulfide	ND		ND		nc	22
56-23-5	Carbon tetrachloride	ND		ND		nc	10
108-90-7	Chlorobenzene	ND		ND		nc	10
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	10
74-87-3	Chloromethane	ND		ND		nc	10
110-82-7	Cyclohexane	ND		ND		nc	12
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	10
124-48-1	Dibromochloromethane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	10
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	10
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	ND		ND		nc	10
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	10
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	10
78-87-5	1,2-Dichloropropane	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	10
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	10
123-91-1	1,4-Dioxane	ND		ND		nc	10
100-41-4	Ethylbenzene	ND		ND		nc	29
76-13-1	Freon 113	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	23
79-20-9	Methyl Acetate	ND		ND		nc	10
108-87-2	Methylcyclohexane	ND		ND		nc	15

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB12537-14DUP	3C89634.D	1	08/01/12	JTP	n/a	n/a	V3C3985
JB12537-14	3C89629.D	1	08/01/12	JTP	n/a	n/a	V3C3985

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB12195-1, JB12195-2, JB12195-3

CAS No.	Compound	JB12537-14 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	23
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	4.5	J	5.4	J	18	25
100-42-5	Styrene	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	18
108-88-3	Toluene	ND		ND		nc	21
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	13
75-69-4	Trichlorofluoromethane	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	10
	m,p-Xylene	ND		ND		nc	26
95-47-6	o-Xylene	ND		ND		nc	22

CAS No.	Surrogate Recoveries	DUP	JB12537-14	Limits
1868-53-7	Dibromofluoromethane	97%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	91%	92%	70-122%
2037-26-5	Toluene-D8	100%	100%	81-127%
460-00-4	4-Bromofluorobenzene	92%	93%	66-132%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V1A5052-BFB
Lab File ID: 1A117586.D
Instrument ID: GCMS1A
Injection Date: 07/05/12
Injection Time: 10:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	9226	15.8		Pass
75	30.0 - 60.0% of mass 95	26824	45.8		Pass
95	Base peak, 100% relative abundance	58538	100.0		Pass
96	5.0 - 9.0% of mass 95	3823	6.53		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	61434	104.9		Pass
175	5.0 - 9.0% of mass 174	5181	8.85	(8.43) [a]	Pass
176	95.0 - 101.0% of mass 174	60016	102.5	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4095	7.00	(6.82) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1A117587.D	07/05/12	11:20	00:31	(unrelated sample)
V1A5052-IC5052	1A117587.D	07/05/12	11:20	00:31	Initial cal 0.5
V1A5052-IC5052	1A117588.D	07/05/12	11:50	01:01	Initial cal 1
ZZZZZZ	1A117588.D	07/05/12	11:50	01:01	(unrelated sample)
V1A5052-IC5052	1A117589.D	07/05/12	12:20	01:31	Initial cal 2
V1A5052-IC5052	1A117590.D	07/05/12	12:50	02:01	Initial cal 5
V1A5052-IC5052	1A117592.D	07/05/12	13:51	03:02	Initial cal 20
V1A5052-IC5052	1A117592A.D	07/05/12	14:21	03:32	Initial cal 10
V1A5052-ICC5052	1A117593.D	07/05/12	14:51	04:02	Initial cal 50
V1A5052-IC5052	1A117594.D	07/05/12	15:21	04:32	Initial cal 100
V1A5052-IC5052	1A117595.D	07/05/12	15:51	05:02	Initial cal 200
V1A5052-ICV5052	1A117598.D	07/05/12	17:51	07:02	Initial cal verification 50
ZZZZZZ	1A117600.D	07/05/12	18:50	08:01	(unrelated sample)
ZZZZZZ	1A117602.D	07/05/12	19:50	09:01	(unrelated sample)
ZZZZZZ	1A117603.D	07/05/12	20:20	09:31	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V1A5088-BFB
Lab File ID: 1A118469.D
Instrument ID: GCMS1A
Injection Date: 07/31/12
Injection Time: 21:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	9827	17.7		Pass
75	30.0 - 60.0% of mass 95	27717	49.8		Pass
95	Base peak, 100% relative abundance	55658	100.0		Pass
96	5.0 - 9.0% of mass 95	4002	7.19		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	57016	102.4		Pass
175	5.0 - 9.0% of mass 174	3405	6.12	(5.97) [a]	Pass
176	95.0 - 101.0% of mass 174	55904	100.4	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3747	6.73	(6.70) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1A5088-CC5052	1A118470.D	07/31/12	21:41	00:30	Continuing cal 50
V1A5088-MB	1A118472.D	07/31/12	22:40	01:29	Method Blank
V1A5088-BS	1A118473.D	07/31/12	23:10	01:59	Blank Spike
JB12384-2MS	1A118474.D	07/31/12	23:40	02:29	Matrix Spike
ZZZZZZ	1A118476.D	08/01/12	00:39	03:28	(unrelated sample)
ZZZZZZ	1A118477.D	08/01/12	01:09	03:58	(unrelated sample)
JB12384-2	1A118478.D	08/01/12	01:40	04:29	(used for QC only; not part of job JB12195)
JB12384-3DUP	1A118479.D	08/01/12	02:10	04:59	Duplicate
JB12384-3	1A118480.D	08/01/12	02:40	05:29	(used for QC only; not part of job JB12195)
ZZZZZZ	1A118481.D	08/01/12	03:10	05:59	(unrelated sample)
ZZZZZZ	1A118482.D	08/01/12	03:41	06:30	(unrelated sample)
ZZZZZZ	1A118483.D	08/01/12	04:10	06:59	(unrelated sample)
JB12195-7	1A118484.D	08/01/12	04:40	07:29	FB-1
ZZZZZZ	1A118485.D	08/01/12	05:10	07:59	(unrelated sample)
ZZZZZZ	1A118486.D	08/01/12	05:40	08:29	(unrelated sample)
ZZZZZZ	1A118487.D	08/01/12	06:10	08:59	(unrelated sample)
ZZZZZZ	1A118488.D	08/01/12	06:40	09:29	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V3C3959-BFB
Lab File ID: 3C89010.D
Instrument ID: GCMS3C
Injection Date: 07/11/12
Injection Time: 09:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15096	18.1		Pass
75	30.0 - 60.0% of mass 95	40795	48.9		Pass
95	Base peak, 100% relative abundance	83501	100.0		Pass
96	5.0 - 9.0% of mass 95	5817	6.97		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	63123	75.6		Pass
175	5.0 - 9.0% of mass 174	4627	5.54	(7.33) [a]	Pass
176	95.0 - 101.0% of mass 174	61413	73.5	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4158	4.98	(6.77) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C3959-IC3959	3C89011.D	07/11/12	10:39	00:57	Initial cal 5
V3C3959-IC3959	3C89012.D	07/11/12	11:11	01:29	Initial cal 2
V3C3959-IC3959	3C89013.D	07/11/12	11:44	02:02	Initial cal 1
V3C3959-IC3959	3C89014.D	07/11/12	12:14	02:32	Initial cal 0.5
V3C3959-IC3959	3C89015.D	07/11/12	12:47	03:05	Initial cal 10
V3C3959-IC3959	3C89016.D	07/11/12	13:16	03:34	Initial cal 20
V3C3959-ICC3959	3C89017.D	07/11/12	13:46	04:04	Initial cal 50
V3C3959-IC3959	3C89018.D	07/11/12	14:23	04:41	Initial cal 75
V3C3959-IC3959	3C89019.D	07/11/12	14:52	05:10	Initial cal 100
V3C3959-IC3959	3C89020.D	07/11/12	15:21	05:39	Initial cal 200
V3C3959-ICV3959	3C89023A.D	07/11/12	17:54	08:12	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V3C3985-BFB
Lab File ID: 3C89622.D
Instrument ID: GCMS3C
Injection Date: 08/01/12
Injection Time: 08:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14153	16.8		Pass
75	30.0 - 60.0% of mass 95	40675	48.4		Pass
95	Base peak, 100% relative abundance	84051	100.0		Pass
96	5.0 - 9.0% of mass 95	5830	6.94		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	67755	80.6		Pass
175	5.0 - 9.0% of mass 174	5020	5.97	(7.41) [a]	Pass
176	95.0 - 101.0% of mass 174	66035	78.6	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4338	5.16	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C3985-CC3959	3C89624.D	08/01/12	10:45	01:59	Continuing cal 20
V3C3985-MB	3C89626.D	08/01/12	11:48	03:02	Method Blank
V3C3985-BS	3C89627.D	08/01/12	12:22	03:36	Blank Spike
JB12537-14	3C89629.D	08/01/12	13:25	04:39	(used for QC only; not part of job JB12195)
JB12537-10A	3C89630.D	08/01/12	13:54	05:08	(used for QC only; not part of job JB12195)
JB12537-10AMS	3C89632.D	08/01/12	14:53	06:07	Matrix Spike
JB12537-14DUP	3C89634.D	08/01/12	17:03	08:17	Duplicate
ZZZZZZ	3C89635.D	08/01/12	17:32	08:46	(unrelated sample)
ZZZZZZ	3C89636.D	08/01/12	18:02	09:16	(unrelated sample)
ZZZZZZ	3C89637.D	08/01/12	18:31	09:45	(unrelated sample)
ZZZZZZ	3C89638.D	08/01/12	19:00	10:14	(unrelated sample)
JB12195-1	3C89639.D	08/01/12	19:30	10:44	PE-1
JB12195-2	3C89640.D	08/01/12	19:59	11:13	PE-2
JB12195-3	3C89641.D	08/01/12	20:28	11:42	PE-3

Instrument Performance Check (BFB)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V3C3986-BFB
Lab File ID: 3C89642.D
Instrument ID: GCMS3C
Injection Date: 08/02/12
Injection Time: 09:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14588	17.4		Pass
75	30.0 - 60.0% of mass 95	41171	49.2		Pass
95	Base peak, 100% relative abundance	83605	100.0		Pass
96	5.0 - 9.0% of mass 95	5796	6.93		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66291	79.3		Pass
175	5.0 - 9.0% of mass 174	4887	5.85	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	64248	76.8	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	4228	5.06	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C3986-CC3959	3C89643.D	08/02/12	09:38	00:33	Continuing cal 20
V3C3986-MB	3C89645.D	08/02/12	10:42	01:37	Method Blank
V3C3986-BS	3C89646.D	08/02/12	11:17	02:12	Blank Spike
JB12688-2	3C89648.D	08/02/12	12:17	03:12	(used for QC only; not part of job JB12195)
ZZZZZZ	3C89649.D	08/02/12	12:46	03:41	(unrelated sample)
ZZZZZZ	3C89650.D	08/02/12	13:16	04:11	(unrelated sample)
ZZZZZZ	3C89651.D	08/02/12	13:45	04:40	(unrelated sample)
ZZZZZZ	3C89652.D	08/02/12	14:14	05:09	(unrelated sample)
JB12688-2MS	3C89653.D	08/02/12	14:44	05:39	Matrix Spike
JB12688-2MSD	3C89654.D	08/02/12	15:13	06:08	Matrix Spike Duplicate
JB12195-4	3C89656.D	08/02/12	16:12	07:07	PE-4
JB12195-5	3C89657.D	08/02/12	16:41	07:36	PE-5
JB12195-6	3C89658.D	08/02/12	17:11	08:06	DUP-1
ZZZZZZ	3C89659.D	08/02/12	17:40	08:35	(unrelated sample)
ZZZZZZ	3C89660.D	08/02/12	18:09	09:04	(unrelated sample)
ZZZZZZ	3C89661.D	08/02/12	18:39	09:34	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	V1A5088-CC5052	**Injection Date:**	07/31/12
Lab File ID:	1A118470.D	**Injection Time:**	21:41
Instrument ID:	GCMS1A	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	59574	7.83	138672	10.27	181493	11.22	177064	14.56	108793	17.03
Upper Limit [a]	119148	8.33	277344	10.77	362986	11.72	354128	15.06	217586	17.53
Lower Limit [b]	29787	7.33	69336	9.77	90747	10.72	88532	14.06	54397	16.53

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1A5088-MB	69705	7.83	163524	10.27	198241	11.22	182930	14.56	124866	17.03
V1A5088-BS	58322	7.83	137301	10.27	178677	11.22	174427	14.56	107294	17.03
JB12384-2MS	59072	7.83	137490	10.27	177756	11.22	170387	14.56	104082	17.03
ZZZZZZ	71054	7.83	167996	10.27	200404	11.22	186830	14.56	126141	17.03
ZZZZZZ	68398	7.83	161420	10.27	197412	11.22	182187	14.56	120977	17.03
JB12384-2	66648	7.82	151912	10.27	183496	11.22	161982	14.56	110420	17.03
JB12384-3DUP	68536	7.83	158469	10.27	195590	11.22	175981	14.56	119521	17.03
JB12384-3	66308	7.83	156368	10.27	185660	11.22	171593	14.56	115589	17.03
ZZZZZZ	66499	7.83	150463	10.27	179391	11.23	168773	14.56	112751	17.03
ZZZZZZ	62653	7.83	143106	10.27	174717	11.22	161895	14.56	110406	17.03
ZZZZZZ	62416	7.83	140372	10.27	171942	11.22	155302	14.56	107390	17.03
JB12195-7	60170	7.83	137378	10.27	163545	11.22	152389	14.56	105659	17.03
ZZZZZZ	58944	7.83	134039	10.27	164224	11.23	149168	14.56	101189	17.03
ZZZZZZ	60655	7.82	137292	10.27	163004	11.22	153621	14.56	102961	17.03
ZZZZZZ	59464	7.82	140569	10.27	163145	11.22	151035	14.56	103332	17.03
ZZZZZZ	59251	7.82	134269	10.27	157750	11.22	145778	14.56	102119	17.03

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	V3C3985-CC3959	**Injection Date:**	08/01/12
Lab File ID:	3C89624.D	**Injection Time:**	10:45
Instrument ID:	GCMS3C	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	118952	7.44	232977	9.66	379982	10.58	281261	13.70	140736	15.99
Upper Limit [a]	237904	7.94	465954	10.16	759964	11.08	562522	14.20	281472	16.49
Lower Limit [b]	59476	6.94	116489	9.16	189991	10.08	140631	13.20	70368	15.49

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3C3985-MB	93482	7.44	232997	9.66	382881	10.58	277209	13.70	137574	15.99
V3C3985-BS	100646	7.44	237438	9.66	385421	10.58	283091	13.70	143203	15.99
JB12537-14	92326	7.44	237217	9.66	391361	10.58	280605	13.70	137337	15.99
JB12537-10A	97281	7.44	244345	9.66	399977	10.58	287532	13.70	137716	15.99
JB12537-10AMS	64277	7.44	258515	9.66	408847	10.58	294944	13.70	140507	15.99
JB12537-14DUP	107979	7.44	242712	9.66	395659	10.58	287329	13.70	141021	15.99
ZZZZZZ	97550	7.43	253731	9.66	413913	10.58	298499	13.70	144181	15.99
ZZZZZZ	82809	7.44	243563	9.66	394454	10.58	281036	13.70	133748	15.99
ZZZZZZ	106413	7.44	242480	9.66	394684	10.58	284328	13.70	136839	15.99
ZZZZZZ	86055	7.44	242520	9.66	395818	10.58	289880	13.70	141372	15.99
JB12195-1	88601	7.44	238079	9.66	389872	10.58	283028	13.70	136651	15.99
JB12195-2	89505	7.43	230545	9.66	379314	10.58	277961	13.70	137066	15.99
JB12195-3	94104	7.44	226998	9.66	370364	10.58	268023	13.70	131243	15.99

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	V3C3986-CC3959	**Injection Date:**	08/02/12
Lab File ID:	3C89643.D	**Injection Time:**	09:38
Instrument ID:	GCMS3C	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	98441	7.44	227780	9.66	372475	10.58	278342	13.70	142421	15.99
Upper Limit [a]	196882	7.94	455560	10.16	744950	11.08	556684	14.20	284842	16.49
Lower Limit [b]	49221	6.94	113890	9.16	186238	10.08	139171	13.20	71211	15.49

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3C3986-MB	70298	7.45	219577	9.66	357270	10.58	255914	13.70	124877	15.99
V3C3986-BS	116074	7.44	232957	9.66	381006	10.58	282700	13.70	144779	15.99
JB12688-2	98243	7.44	237113	9.66	391715	10.58	287079	13.70	141550	15.99
ZZZZZZ	94870	7.44	224593	9.66	370178	10.58	268419	13.70	127610	15.99
ZZZZZZ	113082	7.44	233175	9.66	385514	10.58	281997	13.70	140681	15.99
ZZZZZZ	108975	7.44	229594	9.66	382879	10.58	281696	13.70	138952	15.99
ZZZZZZ	128218	7.44	229931	9.66	381004	10.58	279860	13.70	138720	15.99
JB12688-2MS	57966	7.44	233154	9.66	380467	10.58	276098	13.70	134121	15.99
JB12688-2MSD	68575	7.44	241923	9.66	391230	10.58	284551	13.70	136884	15.99
JB12195-4	102434	7.44	240540	9.66	396182	10.58	286031	13.70	141293	15.99
JB12195-5	91725	7.43	234048	9.66	385486	10.58	282485	13.70	137250	15.99
JB12195-6	100304	7.44	234743	9.66	387568	10.58	283379	13.70	141182	15.99
ZZZZZZ	85441	7.44	245390	9.66	403413	10.58	286238	13.70	128348	15.99
ZZZZZZ	124343	7.44	254038	9.66	412040	10.58	302996	13.70	152394	15.99
ZZZZZZ	76459	7.43	254502	9.66	417141	10.58	302554	13.70	150351	15.99

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB12195-7	1A118484.D	106	112	105	96
JB12384-2MS	1A118474.D	108	106	106	125* [a]
JB12384-3DUP	1A118479.D	106	106	103	95
V1A5088-BS	1A118473.D	108	107	105	98
V1A5088-MB	1A118472.D	104	103	103	94

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	81-121%
S2 = 1,2-Dichloroethane-D4	74-127%
S3 = Toluene-D8	80-122%
S4 = 4-Bromofluorobenzene	78-116%

(a) Outside control limits due to matrix interference.

Volatile Surrogate Recovery Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB12195-1	3C89639.D	101	93	100	94
JB12195-2	3C89640.D	102	96	101	93
JB12195-3	3C89641.D	104	96	101	94
JB12195-4	3C89656.D	103	95	100	93
JB12195-5	3C89657.D	103	94	101	93
JB12195-6	3C89658.D	103	96	101	92
JB12537-10AMS	3C89632.D	91	73	104	92
JB12537-14DUP	3C89634.D	97	91	100	92
JB12688-2MS	3C89653.D	100	84	103	94
JB12688-2MSD	3C89654.D	100	86	103	94
V3C3985-BS	3C89627.D	102	93	103	91
V3C3985-MB	3C89626.D	102	94	100	92
V3C3986-BS	3C89646.D	105	97	103	92
V3C3986-MB	3C89645.D	102	91	99	93

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = 1,2-Dichloroethane-D4	70-122%
S3 = Toluene-D8	81-127%
S4 = 4-Bromofluorobenzene	66-132%

Initial Calibration Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V1A5052-ICC5052
Lab FileID: 1A117593.D

Response Factor Report MS1A

```
Method       : C:\MSDCHEM\1\METHODS\M1A5052.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
Last Update  : Thu Jul 05 16:21:13 2012
Response via : Initial Calibration

Calibration Files
1   =1a117588.D  0.5 =1a117587.D  100 =1a117594.D  50  =1a117593.D
20  =1a117592.D  200 =1a117595.D  5   =1a117590.D  2   =1a117589.D
10  =1a117592a.D      =

 Compound
           1     0.5   100   50    20    200   5     2     10      Avg    %RSD
-------------------------------------------------------------------------------

1)     tert butyl alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
                      1.273 1.276 1.407 1.227 1.186       1.265   1.273    5.85
3)  Ethanol
          0.104       0.086 0.093 0.111       0.105 0.086 0.110   0.099   11.01
4)  1,4-dioxane
                      0.147 0.148 0.153 0.142 0.099       0.102   0.132   18.59
            ----- Linear regression -----  Coefficient =  0.9991
              Response Ratio = -0.00101 + 0.14337 *A


5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  chlorodifluoromethane
          0.531 0.446 0.631 0.601 0.606 0.585 0.617 0.536 0.563   0.569   10.13
7)  dichlorodifluoromethane
                      0.989 0.942 0.741 0.903 0.882 0.672 0.808   0.848   13.37
8)  chloromethane
          0.747       0.846 0.828 0.692 0.764 0.793 0.661 0.780   0.764    8.25
9)  vinyl chloride
          0.640       0.826 0.810 0.671 0.728 0.796 0.616 0.763   0.731   11.04
10)  bromomethane
          0.539       0.515 0.523 0.465 0.434 0.545 0.493 0.526   0.505    7.61
11)  chloroethane
          0.304       0.370 0.370 0.324 0.317 0.393 0.324 0.375   0.347    9.57
12)  trichlorofluoromethane
          0.745       0.941 0.950 0.809 0.827 0.995 0.770 0.915   0.869   10.69
13)  Pentane
          0.515 0.476       0.516 0.551 0.458 0.678 0.550 0.603   0.543   13.08
14)  ethyl ether
                      0.286 0.283 0.280 0.272 0.276 0.232 0.287   0.274    7.03
15)  acrolein
          0.098             0.112 0.110       0.126 0.102 0.113   0.110    8.86
16)  1,1-dichloroethene
          0.404       0.474 0.464 0.484 0.442 0.524 0.404 0.490   0.461    9.09
17)  acetone
                      0.042 0.034 0.032 0.039             0.030   0.035   14.01
18)  allyl chloride
                      0.290 0.288 0.282 0.276 0.308 0.220 0.299   0.280   10.24
19)  acetonitrile
                      0.039 0.039 0.040 0.037 0.037 0.030 0.037   0.037    8.63
20)  iodomethane
          0.918 0.889 1.008 0.983 0.990 0.975 1.048 0.848 1.025   0.965    6.88
21)  carbon disulfide
          1.680 1.576 1.656 1.621 1.663 1.588 1.773 1.557 1.729   1.649    4.35
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V1A5052-ICC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117593.D
Project: 508 West 24th Street, Manhattan, NY

```
22)  methylene chloride
           0.535 0.515 0.545 0.536 0.545 0.525 0.625 0.503 0.569   0.544    6.57
23)  methyl acetate
                       0.341 0.343 0.347 0.326 0.242       0.290   0.315   13.14
24)  methyl tert butyl ether
           1.482 1.227 1.551 1.526 1.501 1.459 1.607 1.447 1.527   1.481    7.21
25)  trans-1,2-dichloroethene
           0.459       0.507 0.505 0.502 0.472 0.551 0.483 0.540   0.503    6.30
26)  di-isopropyl ether
           1.220 1.182 1.523 1.530 1.584 1.442 1.544 1.383 1.442   1.428   10.01
27)  2-butanone
                       0.055 0.052 0.042 0.056             0.037   0.049   16.79
            ----- Linear regression -----  Coefficient =  0.9999
              Response Ratio = -0.00495 + 0.05719 *A

28)  1,1-dichloroethane
           0.776 0.561 0.876 0.869 0.861 0.824 0.891 0.806 0.881   0.816   12.66
29)  chloroprene
           0.479       0.642 0.639 0.669 0.598 0.640 0.508 0.621   0.600   11.49
30)  acrylonitrile
                       0.189 0.185 0.173 0.178 0.173 0.146 0.167   0.173    8.14
31)  vinyl acetate
                       0.085 0.077 0.072 0.088             0.042   0.073   24.90
            ----- Linear regression -----  Coefficient =  0.9998
              Response Ratio = -0.00982 + 0.09003 *A

32)  ethyl tert-butyl ether
           1.389 1.124 1.686 1.682 1.712 1.627 1.645 1.455 1.576   1.544   12.41
33)  ethyl acetate
                       0.065 0.062 0.053 0.062             0.044   0.057   14.99
34)  2,2-dichloropropane
           0.846 0.700 0.753 0.760 0.781 0.687 0.866 0.805 0.863   0.785    8.46
35)  cis-1,2-dichloroethene
           0.519       0.579 0.568 0.555 0.544 0.605 0.509 0.570   0.556    5.67
36)  methylacrylate
                       0.503 0.480 0.450 0.486 0.366       0.410   0.449   11.58
37)  propionitrile
                       0.070 0.068 0.064 0.067 0.059       0.059   0.064    7.10
38)  bromochloromethane
           0.254       0.307 0.299 0.285 0.295 0.311 0.245 0.295   0.286    8.46
39)  tetrahydrofuran
                       0.157 0.155 0.152 0.148 0.154       0.152   0.153    1.97
40)  chloroform
           0.625 0.469 0.591 0.586 0.584 0.555 0.634 0.562 0.600   0.578    8.37
41)  T-BUTYL FORMATE
                       0.514 0.515 0.532 0.483 0.510 0.427 0.488   0.496    6.97
42)  dibromofluoromethane (s)
           0.495 0.375 0.494 0.506 0.496 0.484 0.477 0.430 0.487   0.471    8.96
43)  1,2-dichloroethane-d4 (s)
           0.623       0.557 0.581 0.584 0.536 0.547 0.557 0.539   0.566    5.17
44)  freon 113
                       0.453 0.441 0.476 0.428 0.476 0.340 0.446   0.437   10.61
45)  methacrylonitrile
                       0.269 0.244 0.219 0.271 0.152       0.198   0.225   20.31
            ----- Linear regression -----  Coefficient =  0.9997
              Response Ratio = -0.01867 + 0.27526 *A

46)  1,1,1-trichloroethane
           0.817 0.571 0.829 0.820 0.786 0.783 0.863 0.813 0.829   0.790   10.82
47)  cyclohexane
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V1A5052-ICC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117593.D
Project: 508 West 24th Street, Manhattan, NY

```
          0.758       0.745 0.725 0.709 0.711 0.766 0.744 0.755   0.739    2.92
48)  iso-butyl alcohol
                      0.019 0.019 0.021 0.019 0.020       0.018   0.019    5.85

49) I   1,4-difluorobenzene   ----------------ISTD--------------------
50)  epichlorohydrin
                      0.037 0.037 0.038 0.035 0.032       0.038   0.036    6.53
51)  n-butyl alcohol
                      0.010 0.010 0.011 0.010 0.010       0.009   0.010    5.61
52)  carbon tetrachloride
          0.596 0.437 0.521 0.523 0.560 0.487 0.630 0.576 0.600   0.548   11.18
53)  1,1-dichloropropene
          0.477       0.454 0.448 0.478 0.438 0.525 0.464 0.508   0.474    6.32
54)  hexane
          0.351       0.388 0.374 0.411 0.377 0.440 0.379 0.421   0.393    7.42
55)  benzene
          1.499 1.128 1.337 1.344 1.374 1.261 1.580 1.404 1.480   1.379    9.78
56)  tert-amyl methyl ether
          0.251       0.251 0.259 0.285 0.237 0.298 0.273 0.270   0.266    7.45
57)  heptane
                      0.214 0.210 0.227 0.203 0.244 0.205 0.233   0.220    6.97
58)  isopropyl acetate
                      0.578 0.583 0.569 0.558 0.429       0.456   0.529   12.85
59)  1,2-dichloroethane
          0.421       0.445 0.455 0.454 0.410 0.506 0.472 0.482   0.455    6.87
60)  trichloroethene
          0.366       0.382 0.373 0.367 0.362 0.388 0.330 0.399   0.371    5.60
61)  2-nitropropane
                      0.140 0.136 0.133 0.129 0.143 0.109 0.138   0.133    8.61
62)  2-chloroethyl vinyl ether
          0.183       0.207 0.209 0.217 0.199 0.208 0.183 0.204   0.201    6.10
63)  methyl methacrylate
                      0.223 0.217 0.201 0.213 0.194       0.199   0.208    5.48
64)  1,2-dichloropropane
          0.347       0.335 0.334 0.343 0.321 0.348 0.324 0.354   0.338    3.53
65)  dibromomethane
          0.187       0.233 0.229 0.228 0.221 0.235 0.219 0.232   0.223    7.10
66)  methylcyclohexane
          0.588 0.488 0.615 0.610 0.661 0.587 0.657 0.610 0.645   0.607    8.63
67)  bromodichloromethane
          0.528 0.337 0.518 0.509 0.505 0.496 0.526 0.469 0.531   0.491   12.44
68)  cis-1,3-dichloropropene
          0.606 0.455 0.610 0.596 0.588 0.587 0.637 0.562 0.613   0.584    9.04
69)  toluene-d8 (s)
          1.508 1.309 1.300 1.379 1.382 1.252 1.419 1.348 1.399   1.366    5.52
70)  4-methyl-2-pentanone
                      0.136 0.132 0.129 0.131 0.130       0.127   0.131    2.29
71)  toluene
          0.859 0.661 0.883 0.881 0.869 0.846 0.975 0.865 0.942   0.865   10.07
72)  3-methyl-1-butanol
          0.024       0.016 0.015 0.017 0.015 0.019 0.012 0.016   0.017   21.05
           ----- Linear regression -----  Coefficient =  0.9996
             Response Ratio = 0.00677 + 0.01514 *A

73)  trans-1,3-dichloropropene
          0.543       0.549 0.539 0.536 0.527 0.593 0.535 0.557   0.547    3.75
74)  ethyl methacrylate
                      0.445 0.434 0.419 0.431 0.449 0.363 0.435   0.425    6.85
75)  1,1,2-trichloroethane
          0.256       0.274 0.266 0.261 0.266 0.276 0.252 0.266   0.265    3.10
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V1A5052-ICC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117593.D
Project: 508 West 24th Street, Manhattan, NY

```
 76)  2-hexanone
                        0.108 0.104 0.105 0.106 0.100       0.130   0.109    9.68

 77) I   chlorobenzene-d5      ----------------ISTD--------------------
 78)  tetrachloroethene
            0.390 0.272 0.382 0.385 0.394 0.346 0.431 0.381 0.437   0.380   12.84
 79)  1,3-dichloropropane
            0.570       0.517 0.528 0.527 0.478 0.586 0.537 0.564   0.538    6.37
 80)  butyl acetate
                        0.203 0.210 0.222 0.192 0.212       0.199   0.207    5.21
 81)  3,3-DIMETHYL-1-BUTANOL
            0.067       0.037 0.037 0.042 0.036 0.047 0.037 0.038   0.042   24.81
             ----- Linear regression -----  Coefficient =  0.9976
               Response Ratio = 0.00538 + 0.03606 *A

 82)  dibromochloromethane
            0.479 0.324 0.460 0.461 0.453 0.425 0.519 0.439 0.489   0.450   12.15
 83)  1,2-dibromoethane
            0.362       0.382 0.377 0.377 0.356 0.403 0.364 0.388   0.376    4.05
 84)  chlorobenzene
            1.176 0.977 1.130 1.126 1.105 1.083 1.221 1.107 1.152   1.120    6.03
 85)  1,1,1,2-tetrachloroethane
            0.484 0.336 0.428 0.442 0.450 0.397 0.491 0.438 0.474   0.438   11.01
 86)  ethylbenzene
            1.984 1.541 1.733 1.771 1.832 1.607 1.970 1.830 1.949   1.802    8.70
 87)  m,p-xylene
            0.764 0.571 0.687 0.699 0.725 0.656 0.825 0.750 0.789   0.718   10.60
 88)  o-xylene
            0.828 0.638 0.770 0.780 0.778 0.729 0.840 0.785 0.826   0.775    7.98
 89)  styrene
            1.328 0.927 1.224 1.242 1.269 1.155 1.382 1.267 1.317   1.235   10.74
 90)  bromoform
            0.410       0.382 0.379 0.371 0.363 0.391 0.354 0.386   0.380    4.54

 91) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 92)  isopropylbenzene
            3.360 2.516 3.299 3.307 3.285 3.188 3.554 3.117 3.443   3.230    9.19
 93)  4-bromofluorobenzene (s)
                        0.904 0.937 0.932 0.895 0.987 0.967 0.962   0.941    3.55
 94)  cyclohexanone
                        0.012 0.011 0.012 0.012 0.046       0.046   0.023   76.51
             ----- Linear regression -----  Coefficient =  0.9775
               Response Ratio = 0.02980 + 0.01072 *A

 95)  bromobenzene
            0.982 0.662 0.892 0.897 0.886 0.880 0.959 0.899 0.928   0.887   10.30
 96)  1,1,2,2-tetrachloroethane
            0.928       0.828 0.820 0.778 0.813 0.878 0.798 0.820   0.833    5.75
 97)  trans-1,4-dichloro-2-butene
            0.187       0.225 0.220 0.219 0.213 0.229 0.185 0.229   0.213    8.23
 98)  1,2,3-trichloropropane
            0.219       0.230 0.231 0.230 0.223 0.249 0.191 0.242   0.227    7.66
 99)  n-propylbenzene
            3.901 2.820 3.459 3.505 3.536 3.313 3.923 3.491 3.803   3.528    9.64
100)  2-chlorotoluene
            0.856 0.671 0.791 0.789 0.788 0.779 0.858 0.789 0.841   0.796    7.09
101)  4-chlorotoluene
            2.538 1.929 2.266 2.260 2.237 2.229 2.479 2.263 2.352   2.284    7.58
102)  1,3,5-trimethylbenzene
            2.977 2.415 2.768 2.773 2.741 2.683 2.971 2.758 2.916   2.778    6.22
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V1A5052-ICC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117593.D
Project: 508 West 24th Street, Manhattan, NY

103)	tert-butylbenzene										
	2.582	1.957	2.602	2.549	2.497	2.542	2.583	2.295	2.572	2.464	8.59
104)	pentachloroethane										
	0.667	0.483	0.620	0.633	0.623	0.620	0.662	0.590	0.641	0.615	8.92
105)	1,2,4-trimethylbenzene										
	3.009	2.343	2.811	2.845	2.813	2.707	3.101	2.807	2.943	2.820	7.63
106)	sec-butylbenzene										
	3.827	2.859	3.689	3.664	3.615	3.565	3.867	3.500	3.763	3.594	8.36
107)	1,3-dichlorobenzene										
	2.035	1.649	1.793	1.764	1.758	1.739	1.881	1.819	1.828	1.807	5.94
108)	p-isopropyltoluene										
	3.420	2.436	3.191	3.176	3.114	3.091	3.368	3.121	3.282	3.133	9.12
109)	1,4-dichlorobenzene										
	2.018	1.674	1.838	1.800	1.740	1.798	1.925	1.789	1.857	1.827	5.52
110)	benzyl chloride										
			1.902	1.917	2.104	1.807	2.178	1.887	2.015	1.973	6.67
111)	1,2-dichlorobenzene										
	1.886	1.525	1.861	1.857	1.791	1.792	1.934	1.731	1.847	1.803	6.65
112)	n-butylbenzene										
	1.476	1.157	1.615	1.601	1.559	1.554	1.603	1.458	1.626	1.517	9.71
113)	1,2-dibromo-3-chloropropane										
			0.182	0.195	0.184	0.171	0.189		0.185	0.184	4.35
114)	1,3,5-TRICHLOROBENZENE										
	1.729	1.502	1.662	1.778	1.774	1.527	1.797	1.698	1.795	1.696	6.64
115)	1,2,4-trichlorobenzene										
	1.731	1.415	1.500	1.718	1.650	1.316	1.642	1.509	1.641	1.569	9.07
116)	hexachlorobutadiene										
	0.878	0.675	0.771	0.885	0.892	0.653	0.892	0.830	0.961	0.826	12.75
117)	naphthalene										
	3.695	2.919	2.887	3.447	3.375	2.498	3.552	3.043	3.424	3.204	12.12
118)	1,2,3-trichlorobenzene										
	1.598	1.343	1.182	1.486	1.451	0.997	1.526	1.355	1.449	1.376	13.53
119)	hexachloroethane										
	0.632		0.691	0.702	0.665	0.660	0.669	0.583	0.705	0.664	6.10

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1A5052.M Fri Jul 06 08:54:46 2012 RPT1

6.9.1

6

Initial Calibration Verification

Job Number: JB12195 **Sample:** V1A5052-ICV5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117598.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\1A117598.D Vial: 13
Acq On : 5 Jul 2012 5:51 pm Operator: Cathleen
Sample : icv5052-50 Inst : MS1A
Misc : MS32002,V1A5052,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1A5052.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
Last Update : Thu Jul 05 16:21:13 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	7.84
2	M	tertiary butyl alcohol	1.273	1.277	-0.3	100	0.00	7.97
3		Ethanol	0.099	0.097	2.0	104	0.00	6.42
		----------	True	Calc.	% Drift	----------		
4	M	1,4-dioxane	1250.000	1247.362	0.2	96	0.00	11.98
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	10.27
6	M	chlorodifluoromethane	0.569	0.583	-2.5	101	0.00	4.03
7	M	dichlorodifluoromethane	0.848	0.902	-6.4	99	0.01	4.01
8	M	chloromethane	0.764	0.775	-1.4	97	0.00	4.37
9	M	vinyl chloride	0.731	0.770	-5.3	99	0.00	4.64
10	M	bromomethane	0.505	0.494	2.2	98	0.00	5.35
11	M	chloroethane	0.347	0.355	-2.3	99	0.00	5.55
12	M	trichlorofluoromethane	0.869	0.904	-4.0	99	0.01	6.07
13		Pentane	0.543	0.538	0.9	108	0.00	6.16
14	M	ethyl ether	0.274	0.277	-1.1	101	0.00	6.55
15	M	acrolein	0.110	0.110	0.0	101	0.00	6.83
16	M	1,1-dichloroethene	0.461	0.466	-1.1	104	0.00	7.00
17	M	acetone	0.035	0.035	0.0	105	0.02	7.13
18	M	allyl chloride	0.280	0.286	-2.1	103	0.00	7.61
19	M	acetonitrile	0.037	0.037	0.0	99	0.00	7.60
20	M	iodomethane	0.965	0.984	-2.0	104	0.00	7.31
21	M	carbon disulfide	1.649	1.646	0.2	105	0.00	7.45
22	M	methylene chloride	0.544	0.541	0.6	105	0.00	7.83
23	M	methyl acetate	0.315	0.317	-0.6	96	0.00	7.63
24	M	methyl tert butyl ether	1.481	1.500	-1.1	102	0.00	8.20
25	M	trans-1,2-dichloroethene	0.503	0.491	2.4	101	0.00	8.25
26	M	di-isopropyl ether	1.428	1.491	-4.4	101	0.00	8.87
		----------	True	Calc.	% Drift	----------		
27	M	2-butanone	50.000	46.300	7.4	95	0.00	9.71
		----------	AvgRF	CCRF	% Dev	----------		
28	M	1,1-dichloroethane	0.816	0.863	-5.8	103	0.00	8.89
29	M	chloroprene	0.600	0.691	-15.2	112	0.00	9.01
30	M	acrylonitrile	0.173	0.176	-1.7	99	0.00	8.22
		----------	True	Calc.	% Drift	----------		
31	M	vinyl acetate	50.000	51.443	-2.9	111	0.00	8.91

Initial Calibration Verification

Job Number: JB12195 **Sample:** V1A5052-ICV5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117598.D
Project: 508 West 24th Street, Manhattan, NY

			AvgRF	CCRF	% Dev			
32	M	ethyl tert-butyl ether	1.544	1.650	-6.9	102	0.00	9.38
33	M	ethyl acetate	0.057	0.059	-3.5	99	0.00	9.71
34	M	2,2-dichloropropane	0.785	0.807	-2.8	110	0.00	9.69
35	M	cis-1,2-dichloroethene	0.556	0.569	-2.3	104	0.00	9.70
36		methylacrylate	0.449	0.461	-2.7	100	0.00	9.80
37	M	propionitrile	0.064	0.064	0.0	99	0.00	9.78
38	M	bromochloromethane	0.286	0.296	-3.5	102	0.00	10.03
39	M	tetrahydrofuran	0.153	0.152	0.7	101	0.00	10.09
40	M	chloroform	0.578	0.579	-0.2	102	0.00	10.09
41	M	T-BUTYL FORMATE	0.496	0.522	-5.2	105	0.00	10.12
42	S	dibromofluoromethane (s)	0.471	0.483	-2.5	99	0.00	10.31
43	S	1,2-dichloroethane-d4 (s)	0.566	0.550	2.8	98	0.00	10.75
44	M	freon 113	0.437	0.424	3.0	100	0.00	6.97
			True	Calc.	% Drift			
45	M	methacrylonitrile	50.000	47.618	4.8	103	0.00	9.98
			AvgRF	CCRF	% Dev			
46	M	1,1,1-trichloroethane	0.790	0.825	-4.4	104	0.00	10.35
47	M	cyclohexane	0.739	0.740	-0.1	106	0.00	10.42
48		iso-butyl alcohol	0.019	0.021	-10.5	119	0.00	10.61
49	I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.00	11.23
50	M	epichlorohydrin	0.036	0.036	0.0	99	0.00	12.55
51	M	n-butyl alcohol	0.010	0.010#	0.0	97	0.00	11.39
52	M	carbon tetrachloride	0.548	0.549	-0.2	105	0.00	10.56
53	M	1,1-dichloropropene	0.474	0.471	0.6	105	0.00	10.55
54	M	hexane	0.393	0.418	-6.4	112	0.00	8.59
55	M	benzene	1.379	1.362	1.2	101	0.00	10.82
56	M	tert-amyl methyl ether	0.266	0.263	1.1	101	0.00	10.86
57	M	heptane	0.220	0.236	-7.3	112	0.00	11.00
58	M	isopropyl acetate	0.529	0.608	-14.9	104	0.00	10.76
59	M	1,2-dichloroethane	0.455	0.456	-0.2	100	0.00	10.85
60	M	trichloroethene	0.371	0.384	-3.5	103	0.00	11.58
61	M	2-nitropropane	0.133	0.136	-2.3	100	0.00	12.40
62	M	2-chloroethyl vinyl ether	0.201	0.213	-6.0	102	0.00	12.41
63	M	methyl methacrylate	0.208	0.215	-3.4	99	0.00	11.87
64	M	1,2-dichloropropane	0.338	0.336	0.6	101	0.00	11.85
65	M	dibromomethane	0.223	0.229	-2.7	100	0.00	12.02
66	M	methylcyclohexane	0.607	0.609	-0.3	100	0.00	11.79
67	M	bromodichloromethane	0.491	0.515	-4.9	101	0.00	12.16
68	M	cis-1,3-dichloropropene	0.584	0.618	-5.8	104	0.00	12.65
69	S	toluene-d8 (s)	1.366	1.352	1.0	98	0.00	12.94
70	M	4-methyl-2-pentanone	0.131	0.131	0.0	99	0.00	12.75
71	M	toluene	0.865	0.901	-4.2	102	0.00	13.02
			True	Calc.	% Drift			
72	M	3-methyl-1-butanol	1000.000	982.779	1.7	99	0.00	12.79
			AvgRF	CCRF	% Dev			
73	M	trans-1,3-dichloropropene	0.547	0.552	-0.9	102	0.00	13.24
74	M	ethyl methacrylate	0.425	0.440	-3.5	101	0.00	13.24
75	M	1,1,2-trichloroethane	0.265	0.270	-1.9	101	0.00	13.47
76	M	2-hexanone	0.109	0.103	5.5	99	0.00	13.66
77	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	14.56
78	M	tetrachloroethene	0.380	0.376	1.1	103	0.00	13.64
79	M	1,3-dichloropropane	0.538	0.514	4.5	103	0.00	13.66

Initial Calibration Verification

Job Number: JB12195 **Sample:** V1A5052-ICV5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A117598.D
Project: 508 West 24th Street, Manhattan, NY

80	M	butyl acetate	0.207	0.200	3.4	100	0.00	13.73
		----------	True	Calc.	% Drift	----------		
81	M	3,3-DIMETHYL-1-BUTANOL	500.000	464.015	7.2	97	0.00	13.84
		----------	AvgRF	CCRF	% Dev	----------		
82	M	dibromochloromethane	0.450	0.447	0.7	102	0.00	13.94
83	M	1,2-dibromoethane	0.376	0.366	2.7	102	0.00	14.10
84	M	chlorobenzene	1.120	1.109	1.0	104	0.00	14.60
85	M	1,1,1,2-tetrachloroethane	0.438	0.443	-1.1	105	0.00	14.65
86	M	ethylbenzene	1.802	1.775	1.5	106	0.00	14.65
87	M	m,p-xylene	0.718	0.701	2.4	106	0.00	14.76
88	M	o-xylene	0.775	0.777	-0.3	105	0.00	15.21
89	M	styrene	1.235	1.238	-0.2	105	0.00	15.22
90	M	bromoform	0.380	0.367	3.4	102	0.00	15.51
91	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	17.03
92	M	isopropylbenzene	3.230	3.321	-2.8	106	0.00	15.57
93	S	4-bromofluorobenzene (s)	0.941	0.898	4.6	101	0.00	15.79
		----------	True	Calc.	% Drift	----------		
94		cyclohexanone	500.000	639.442	-27.9#	155	0.00	15.76
		----------	AvgRF	CCRF	% Dev	----------		
95	M	bromobenzene	0.887	0.891	-0.5	105	0.00	16.00
96	M	1,1,2,2-tetrachloroethane	0.833	0.800	4.0	103	0.00	15.90
97	M	trans-1,4-dichloro-2-bute	0.213	0.225	-5.6	108	0.00	15.95
98	M	1,2,3-trichloropropane	0.227	0.224	1.3	102	0.00	15.98
99	M	n-propylbenzene	3.528	3.500	0.8	105	0.00	16.01
100	M	2-chlorotoluene	0.796	0.789	0.9	105	0.00	16.17
101	M	4-chlorotoluene	2.284	2.254	1.3	105	0.00	16.28
102	M	1,3,5-trimethylbenzene	2.778	2.799	-0.8	106	0.00	16.17
103	M	tert-butylbenzene	2.464	2.576	-4.5	107	0.00	16.53
104	M	pentachloroethane	0.615	0.630	-2.4	105	0.00	16.63
105	M	1,2,4-trimethylbenzene	2.820	2.830	-0.4	105	0.00	16.58
106	M	sec-butylbenzene	3.594	3.678	-2.3	106	0.00	16.76
107	M	1,3-dichlorobenzene	1.807	1.764	2.4	105	0.00	16.97
108	M	p-isopropyltoluene	3.133	3.215	-2.6	107	0.00	16.89
109	M	1,4-dichlorobenzene	1.827	1.789	2.1	105	0.00	17.07
110		benzyl chloride	1.973	2.057	-4.3	113	0.00	17.18
111	M	1,2-dichlorobenzene	1.803	1.845	-2.3	105	0.00	17.48
112	M	n-butylbenzene	1.517	1.616	-6.5	106	0.00	17.33
113	M	1,2-dibromo-3-chloropropa	0.184	0.186	-1.1	100	0.00	18.32
114		1,3,5-TRICHLOROBENZENE	1.696	1.797	-6.0	107	0.00	18.52
115	M	1,2,4-trichlorobenzene	1.569	1.655	-5.5	102	0.00	19.21
116	M	hexachlorobutadiene	0.826	0.851	-3.0	101	0.00	19.32
117	M	naphthalene	3.204	3.228	-0.7	99	0.00	19.51
118	M	1,2,3-trichlorobenzene	1.376	1.382	-0.4	98	0.00	19.77
119	m	hexachloroethane	0.664	0.699	-5.3	105	0.00	17.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1a117593.D M1A5052.M Fri Jul 06 08:54:45 2012 RPT1

6.9.2

6

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V1A5088-CC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A118470.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDChem\1\DATA\1a118470.D                    Vial: 26
Acq On    : 31 Jul 2012   9:41 pm                       Operator: Cathleen
Sample    : CC5052-50                                   Inst    : MS1A
Misc      : MS33275,V1A5088,W,,,,1                      Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M1A5052.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
Last Update  : Thu Jul 05 16:21:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	105	-0.01	7.83
2	M	tertiary butyl alcohol	1.273	1.336	-4.9	110	-0.02	7.96
3		Ethanol	0.099	0.112	-13.1	127	-0.01	6.41
			True	Calc.	% Drift			
4	M	1,4-dioxane	1250.000	1065.347	14.8	87	0.00	11.99
			AvgRF	CCRF	% Dev			
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	10.27
6	M	chlorodifluoromethane	0.569	0.668	-17.4	112	-0.02	4.02
7	M	dichlorodifluoromethane	0.848	1.121	-32.2#	120	0.00	3.99
8	M	chloromethane	0.764	0.847	-10.9	103	0.00	4.36
9	M	vinyl chloride	0.731	0.825	-12.9	102	0.00	4.64
10	M	bromomethane	0.505	0.499	1.2	96	-0.01	5.34
11	M	chloroethane	0.347	0.381	-9.8	104	0.00	5.54
12	M	trichlorofluoromethane	0.869	1.039	-19.6	110	0.00	6.06
13		Pentane		----------NA----------				
14	M	ethyl ether	0.274	0.288	-5.1	102	0.00	6.54
15	M	acrolein	0.110	0.098	10.9	87	0.00	6.82
16	M	1,1-dichloroethene	0.461	0.455	1.3	99	0.00	7.00
17	M	acetone	0.035	0.040	-14.3	117	0.00	7.11
18	M	allyl chloride	0.280	0.280	0.0	98	-0.01	7.60
19	M	acetonitrile	0.037	0.046	-24.3#	119	0.00	7.59
20	M	iodomethane	0.965	0.997	-3.3	102	0.00	7.31
21	M	carbon disulfide	1.649	1.609	2.4	100	0.00	7.44
22	M	methylene chloride	0.544	0.528	2.9	99	0.00	7.82
23	M	methyl acetate	0.315	0.363	-15.2	106	0.00	7.63
24	M	methyl tert butyl ether	1.481	1.629	-10.0	107	0.00	8.19
25	M	trans-1,2-dichloroethene	0.503	0.492	2.2	98	0.00	8.25
26	M	di-isopropyl ether	1.428	1.645	-15.2	108	0.00	8.87
			True	Calc.	% Drift			
27	M	2-butanone	50.000	49.902	0.2	100	0.00	9.70
			AvgRF	CCRF	% Dev			
28	M	1,1-dichloroethane	0.816	0.904	-10.8	104	0.00	8.88
29	M	chloroprene	0.600	0.684	-14.0	108	0.00	9.00
30	M	acrylonitrile	0.173	0.187	-8.1	101	0.00	8.21
			True	Calc.	% Drift			
31	M	vinyl acetate	50.000	49.468	1.1	103	-0.01	8.90

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V1A5088-CC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A118470.D
Project: 508 West 24th Street, Manhattan, NY

			AvgRF	CCRF	% Dev			
32	M	ethyl tert-butyl ether	1.544	1.775	-15.0	106	-0.01	9.38
33	M	ethyl acetate	0.057	0.065	-14.0	105	-0.01	9.70
34	M	2,2-dichloropropane	0.785	0.771	1.8	102	0.00	9.68
35	M	cis-1,2-dichloroethene	0.556	0.555	0.2	98	0.00	9.70
36		methylacrylate	0.449	0.485	-8.0	101	0.00	9.79
37	M	propionitrile	0.064	0.069	-7.8	102	0.00	9.77
38	M	bromochloromethane	0.286	0.305	-6.6	102	0.00	10.03
39	M	tetrahydrofuran	0.153	0.162	-5.9	105	0.00	10.09
40	M	chloroform	0.578	0.603	-4.3	103	0.00	10.09
41	M	T-BUTYL FORMATE	0.496	0.546	-10.1	107	-0.01	10.11
42	S	dibromofluoromethane (s)	0.471	0.505	-7.2	100	-0.01	10.30
43	S	1,2-dichloroethane-d4 (s)	0.566	0.595	-5.1	103	0.00	10.75
44	M	freon 113	0.437	0.485	-11.0	111	0.00	6.97

			True	Calc.	% Drift			
45	M	methacrylonitrile	50.000	51.054	-2.1	108	-0.01	9.97

			AvgRF	CCRF	% Dev			
46	M	1,1,1-trichloroethane	0.790	0.882	-11.6	108	0.00	10.34
47	M	cyclohexane	0.739	0.729	1.4	101	0.00	10.42
48		iso-butyl alcohol	0.019	0.021	-10.5	110	-0.01	10.60
49	I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.00	11.22
50	M	epichlorohydrin	0.036	0.038	-5.6	97	0.00	12.55
51	M	n-butyl alcohol	0.010	0.010	0.0	99	0.00	11.39
52	M	carbon tetrachloride	0.548	0.623	-13.7	111	0.00	10.56
53	M	1,1-dichloropropene	0.474	0.499	-5.3	104	0.00	10.54
54	M	hexane	0.393	0.412	-4.8	103	0.00	8.59
55	M	benzene	1.379	1.381	-0.1	96	0.00	10.82
56	M	tert-amyl methyl ether	0.266	0.282	-6.0	101	0.00	10.85
57	M	heptane	0.220	0.220	0.0	98	0.00	11.00
58	M	isopropyl acetate	0.529	0.710	-34.2#	114	0.00	10.76
59	M	1,2-dichloroethane	0.455	0.525	-15.4	108	0.00	10.84
60	M	trichloroethene	0.371	0.392	-5.7	98	0.00	11.57
61	M	2-nitropropane	0.133	0.162	-21.8#	110	0.00	12.40
62	M	2-chloroethyl vinyl ether	0.201	0.245	-21.9#	109	0.00	12.41
63	M	methyl methacrylate	0.208	0.231	-11.1	99	0.00	11.87
64	M	1,2-dichloropropane	0.338	0.364	-7.7	102	0.00	11.85
65	M	dibromomethane	0.223	0.249	-11.7	101	0.00	12.02
66	M	methylcyclohexane	0.607	0.655	-7.9	100	0.00	11.79
67	M	bromodichloromethane	0.491	0.568	-15.7	104	0.00	12.15
68	M	cis-1,3-dichloropropene	0.584	0.641	-9.8	100	0.00	12.64
69	S	toluene-d8 (s)	1.366	1.437	-5.2	97	0.00	12.94
70	M	4-methyl-2-pentanone	0.131	0.142	-8.4	100	0.00	12.75
71	M	toluene	0.865	0.913	-5.5	97	0.00	13.02

			True	Calc.	% Drift			
72	M	3-methyl-1-butanol	1000.000	1077.872	-7.8	100	0.00	12.78

			AvgRF	CCRF	% Dev			
73	M	trans-1,3-dichloropropene	0.547	0.598	-9.3	103	0.00	13.24
74	M	ethyl methacrylate	0.425	0.464	-9.2	100	0.00	13.23
75	M	1,1,2-trichloroethane	0.265	0.287	-8.3	101	0.00	13.46
76	M	2-hexanone	0.109	0.112	-2.8	101	0.00	13.66
77	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	14.56
78	M	tetrachloroethene	0.380	0.404	-6.3	100	0.00	13.64
79	M	1,3-dichloropropane	0.538	0.570	-5.9	103	0.00	13.66

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V1A5088-CC5052
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1A118470.D
Project: 508 West 24th Street, Manhattan, NY

80	M	butyl acetate	0.207	0.232	-12.1	106	0.00	13.73
		----------	True	Calc.	% Drift	----------		
81	M	3,3-DIMETHYL-1-BUTANOL	500.000	539.786	-8.0	102	0.00	13.84
		----------	AvgRF	CCRF	% Dev	----------		
82	M	dibromochloromethane	0.450	0.499	-10.9	103	0.00	13.94
83	M	1,2-dibromoethane	0.376	0.393	-4.5	100	0.00	14.10
84	M	chlorobenzene	1.120	1.163	-3.8	99	0.00	14.59
85	M	1,1,1,2-tetrachloroethane	0.438	0.480	-9.6	104	0.00	14.65
86	M	ethylbenzene	1.802	1.841	-2.2	99	0.00	14.65
87	M	m,p-xylene	0.718	0.719	-0.1	98	0.00	14.76
88	M	o-xylene	0.775	0.809	-4.4	99	0.00	15.21
89	M	styrene	1.235	1.279	-3.6	98	0.00	15.22
90	M	bromoform	0.380	0.415	-9.2	104	0.00	15.51
91	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	17.03
92	M	isopropylbenzene	3.230	3.479	-7.7	102	0.00	15.57
93	S	4-bromofluorobenzene (s)	0.941	0.940	0.1	97	0.00	15.79
		----------	True	Calc.	% Drift	----------		
94		cyclohexanone	500.000	372.064	25.6#	94	0.00	15.75
		----------	AvgRF	CCRF	% Dev	----------		
95	M	bromobenzene	0.887	0.933	-5.2	101	0.00	16.00
96	M	1,1,2,2-tetrachloroethane	0.833	0.826	0.8	98	0.00	15.90
97	M	trans-1,4-dichloro-2-bute	0.213	0.195	8.5	86	0.00	15.95
98	M	1,2,3-trichloropropane	0.227	0.245	-7.9	103	0.00	15.98
99	M	n-propylbenzene	3.528	3.618	-2.6	100	0.00	16.00
100	M	2-chlorotoluene	0.796	0.817	-2.6	100	0.00	16.17
101	M	4-chlorotoluene	2.284	2.324	-1.8	100	0.00	16.27
102	M	1,3,5-trimethylbenzene	2.778	2.895	-4.2	101	0.00	16.16
103	M	tert-butylbenzene	2.464	2.708	-9.9	103	0.00	16.53
104	M	pentachloroethane	0.615	0.677	-10.1	104	0.00	16.63
105	M	1,2,4-trimethylbenzene	2.820	2.936	-4.1	100	0.00	16.58
106	M	sec-butylbenzene	3.594	3.773	-5.0	100	0.00	16.76
107	M	1,3-dichlorobenzene	1.807	1.792	0.8	99	0.00	16.97
108	M	p-isopropyltoluene	3.133	3.294	-5.1	101	0.00	16.89
109	M	1,4-dichlorobenzene	1.827	1.838	-0.6	99	0.00	17.06
110		benzyl chloride	1.973	1.690	14.3	85	0.00	17.18
111	M	1,2-dichlorobenzene	1.803	1.891	-4.9	99	0.00	17.48
112	M	n-butylbenzene	1.517	1.620	-6.8	98	0.00	17.33
113	M	1,2-dibromo-3-chloropropa	0.184	0.201	-9.2	100	0.00	18.32
114		1,3,5-TRICHLOROBENZENE	1.696	1.814	-7.0	99	0.00	18.51
115	M	1,2,4-trichlorobenzene	1.569	1.687	-7.5	95	0.00	19.21
116	M	hexachlorobutadiene	0.826	0.878	-6.3	96	0.00	19.32
117	M	naphthalene	3.204	3.219	-0.5	91	0.00	19.51
118	M	1,2,3-trichlorobenzene	1.376	1.380	-0.3	90	0.00	19.77
119	m	hexachloroethane	0.664	0.742	-11.7	102	0.00	17.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1a117593.D M1A5052.M Thu Aug 02 07:45:32 2012 RPT1

6.9.3

6

Initial Calibration Summary

Job Number: JB12195 **Sample:** V3C3959-ICC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89017.D
Project: 508 West 24th Street, Manhattan, NY

Response Factor Report MS3C

```
Method       : C:\MSDCHEM\1\METHODS\M3C3959.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon Sep 13 11:48:20 2010
Response via : Initial Calibration

Calibration Files
5   =3c89011.D   10  =3c89015.D   0.5 =3c89014.D   50  =3c89017.D
100 =3c89019.D   1   =3c89013.D   200 =3c89020.D   20  =3c89016.D
2   =3c89012.D   75  =3c89018.D       =                 =

Compound
        5     10    0.5   50    100   1     200   20    2     75     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.104 0.101       0.097 0.112 0.105 0.098 0.103 0.105 0.103  0.103    4.21
3)  tertiary butyl alcohol
     1.234 1.279 1.593 1.151 1.212 1.500 1.204 1.245 1.425 1.247  1.309   11.11

4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  chlorodifluoromethane
     0.664 0.480       0.480 0.583       0.589 0.497 0.637 0.610  0.568   12.79
6)  dichlorodifluoromethane
     0.924 0.786 0.920 0.768 0.833 0.874 0.822 0.771 0.959 0.849  0.851    7.92
7)  chloromethane
     0.732 0.659       0.608 0.662       0.660 0.655 0.870 0.671  0.690   11.62
8)  vinyl chloride
     0.674 0.588 0.778 0.586 0.656 0.620 0.668 0.599 0.678 0.663  0.651    8.83
9)  bromomethane
     0.402 0.389       0.344 0.353 0.384 0.249 0.382 0.437 0.358  0.366   14.25
10)  chloroethane
     0.367 0.337 0.438 0.310 0.336 0.355 0.305 0.332 0.379 0.340  0.350   11.03
11)  Vinyl Bromide
     0.346 0.313 0.455 0.275 0.342 0.350 0.329 0.311 0.348 0.345  0.341   13.56
12)  Pentane
     0.720 0.602       0.512 0.652       0.635 0.568 0.786 0.660  0.642   13.34
13)  trichlorofluoromethane
     0.871 0.759       0.710 0.773 0.970 0.738 0.734 0.986 0.789  0.814   12.70
14)  ethyl ether
     0.241 0.231       0.261 0.226       0.235 0.281 0.311 0.241  0.253   11.53
15)  acrolein
     0.063 0.078       0.083       0.082       0.081 0.088 0.092  0.081   11.35
16)  1,1-dichloroethene
     0.520 0.396 0.504 0.414 0.499 0.599 0.503 0.413 0.574 0.493  0.491   13.72
17)  acetone
     0.053 0.050       0.040 0.036       0.042 0.042       0.045  0.044   13.71
18)  allyl chloride
     0.316 0.249 0.313 0.255 0.314 0.308 0.314 0.268 0.307 0.306  0.295    9.01
19)  acetonitrile
     0.038 0.037 0.046 0.034 0.033 0.038 0.036 0.034 0.041 0.038  0.038    9.62
20)  iodomethane
     0.809 0.661 0.735 0.689 0.806 0.792 0.805 0.708 0.829 0.799  0.763    7.82
21)  iso-butyl alcohol
     0.014 0.016       0.016 0.014       0.017 0.016       0.019  0.016   10.35
22)  carbon disulfide
     1.851 1.380 1.653 1.486 1.804 1.912 1.780 1.513 1.883 1.771  1.703   10.87
23)  methylene chloride
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V3C3959-ICC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89017.D
Project: 508 West 24th Street, Manhattan, NY

```
      0.660 0.578       0.490 0.537       0.535 0.530       0.550  0.554    9.68
24)  methyl acetate
      0.074 0.079 0.066 0.074 0.068 0.086 0.079 0.073 0.097 0.083  0.078   11.51
25)  methyl tert butyl ether
      1.417 1.423 1.511 1.391 1.373 1.635 1.454 1.425 1.608 1.529  1.477    6.13
26)  trans-1,2-dichloroethene
      0.573 0.457       0.468 0.541 0.666 0.541 0.495 0.620 0.541  0.545   12.52
27)  di-isopropyl ether
      1.749 1.656 1.674 1.580 1.728 1.841 1.705 1.665 1.972 1.833  1.740    6.54
28)  ethyl tert-butyl ether
      1.631 1.611 1.519 1.542 1.649 1.703 1.684 1.601 1.815 1.785  1.654    5.78
29)  2-butanone
      0.044 0.052       0.052 0.048       0.057 0.050 0.059 0.059  0.052    9.97
30)  1,1-dichloroethane
      0.993 0.838 0.896 0.865 0.967 1.064 0.964 0.896 1.037 0.976  0.950    7.77
31)  chloroprene
      0.731 0.596 0.623 0.611 0.753 0.681 0.764 0.639 0.738 0.787  0.692   10.23
32)  acrylonitrile
      0.147 0.160 0.152 0.152 0.138 0.168 0.154 0.155 0.178 0.167  0.157    7.28
33)  vinyl acetate
      0.079 0.081       0.079 0.081       0.090 0.078 0.071 0.092  0.081    8.41
34)  ethyl acetate
      0.058 0.061       0.057 0.052       0.061 0.057 0.076 0.064  0.061   11.75
35)  2,2-dichloropropane
      0.897 0.664 0.778 0.732 0.828 0.887 0.818 0.736 0.893 0.834  0.807    9.70
36)  cis-1,2-dichloroethene
      0.574 0.503 0.720 0.512 0.572 0.666 0.568 0.533 0.650 0.576  0.587   11.95
37)  propionitrile
      0.058 0.063 0.055 0.060 0.054 0.065 0.063 0.062 0.068 0.067  0.061    7.83
38)  Methyl Acrylate
      0.052 0.055       0.060 0.056       0.068 0.056 0.052 0.066  0.058   10.28
39)  bromochloromethane
      0.232 0.220 0.231 0.220 0.231 0.236 0.242 0.225 0.263 0.245  0.234    5.54
40)  tetrahydrofuran
      0.157 0.163       0.148 0.134       0.155 0.156 0.206 0.166  0.161   12.87
41)  chloroform
      0.945 0.813 1.053 0.836 0.924 1.069 0.925 0.868 1.018 0.939  0.939    9.27
42)  tert-Butyl Formate
      0.350 0.368 0.321 0.380 0.407 0.349 0.443 0.366 0.385 0.447  0.382   10.67
43)  dibromofluoromethane (s)
      0.453 0.397 0.502 0.401 0.441 0.517 0.457 0.415 0.480 0.456  0.452    8.89
44)  1,2-dichloroethane-d4 (s)
      0.545 0.507 0.661 0.479 0.489 0.649 0.514 0.494 0.606 0.530  0.547   12.27
45)  freon 113
      0.411 0.334 0.333 0.321 0.393 0.384 0.395 0.334 0.439 0.409  0.375   10.98
46)  methacrylonitrile
      0.227 0.241       0.242 0.223 0.316 0.261 0.238 0.285 0.270  0.256   11.82
47)  1,1,1-trichloroethane
      0.873 0.672 0.771 0.749 0.877 0.851 0.876 0.764 0.864 0.873  0.817    8.89
48)  Cyclohexane
      0.923 0.670 0.756 0.745 0.880 0.893 0.881 0.734 0.898 0.873  0.825   10.81
49)  Tert Amyl Alcohol
      0.054 0.059       0.064 0.056 0.046 0.071 0.061 0.064 0.075  0.061   14.07
50)  2,2,4-trimethylpentane
      2.335 1.748 1.830 1.730 2.059 2.084 2.015 1.696 2.347 2.177  2.002   12.15
51)  tert-amyl methyl ether
      1.456 1.444 1.382 1.381 1.425 1.660 1.463 1.427 1.620 1.577  1.484    6.67

52) I   1,4-difluorobenzene   ----------------ISTD---------------------
53)  epichlorohydrin
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V3C3959-ICC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89017.D
Project: 508 West 24th Street, Manhattan, NY

```
      0.022 0.025       0.025 0.023 0.024 0.027 0.023 0.025 0.028  0.025    8.29
54)  n-butyl alcohol
      0.007 0.009       0.009 0.008 0.008 0.010 0.008 0.009 0.011  0.009#  12.72
55)  carbon tetrachloride
      0.471 0.361 0.417 0.407 0.483 0.446 0.473 0.407 0.459 0.476  0.440    9.07
56)  1,1-dichloropropene
      0.483 0.367 0.434 0.404 0.480 0.490 0.478 0.408 0.493 0.475  0.451    9.84
57)  hexane
      0.524 0.403       0.364 0.442       0.439 0.379       0.465  0.431   12.72
58)  benzene
      1.422 1.161 1.456 1.197 1.340 1.474 1.270 1.247 1.501 1.346  1.341    8.96
59)  heptane
      0.282 0.218 0.217 0.215 0.258 0.252 0.258 0.211 0.290 0.276  0.248   12.31
60)  isopropyl acetate
      0.539 0.572 0.516 0.570 0.525 0.573 0.605 0.552 0.607 0.633  0.569    6.64
61)  1,2-dichloroethane
      0.395 0.384 0.387 0.375 0.381 0.434 0.391 0.389 0.445 0.406  0.399    5.86
62)  trichloroethene
      0.326 0.266 0.306 0.287 0.330 0.343 0.330 0.290 0.350 0.329  0.316    8.63
63)  ethyl acrylate
      0.294 0.321 0.272 0.336 0.311 0.295 0.357 0.327 0.308 0.376  0.320    9.71
64)  Tert-Amyl ethyl ether
      0.503 0.510 0.512 0.503 0.531 0.539 0.533 0.531 0.514 0.560  0.524    3.50
65)  2-nitropropane
      0.077 0.082       0.081 0.077 0.103 0.086 0.077 0.098 0.091  0.086   11.27
66)  2-chloroethyl vinyl ether
      0.137 0.143 0.114 0.141 0.138 0.131 0.142 0.140 0.148 0.158  0.139    8.27
67)  methyl methacrylate
      0.061 0.064       0.068 0.066 0.058 0.075 0.065 0.063 0.077  0.066    9.50
68)  1,2-dichloropropane
      0.315 0.279 0.283 0.288 0.312 0.326 0.308 0.296 0.333 0.319  0.306    6.10
69)  methylcyclohexane
      0.626 0.495 0.528 0.481 0.591 0.580 0.583 0.500 0.640 0.617  0.564   10.37
70)  dibromomethane
      0.154 0.152 0.156 0.153 0.156 0.164 0.166 0.155 0.173 0.169  0.160    4.69
71)  bromodichloromethane
      0.368 0.339 0.319 0.370 0.403 0.361 0.415 0.370 0.382 0.412  0.374    8.24
72)  cis-1,3-dichloropropene
      0.437 0.413 0.390 0.444 0.478 0.444 0.489 0.441 0.456 0.493  0.449    7.22
73)  toluene-d8 (s)
      1.068 0.878 1.192 0.904 1.018 1.195 1.017 0.940 1.138 1.044  1.039   10.79
74)  4-methyl-2-pentanone
      0.088 0.098       0.102 0.091 0.099 0.108 0.103 0.101 0.113  0.100    7.72
75)  toluene
      0.790 0.635 0.827 0.664 0.745 0.855 0.739 0.683 0.838 0.745  0.752   10.06
76)  3-methyl-1-butanol
      0.006 0.007 0.007 0.008 0.007 0.005 0.009 0.007 0.007 0.010  0.007#  17.85
77)  trans-1,3-dichloropropene
      0.377 0.366 0.306 0.390 0.402 0.379 0.415 0.388 0.384 0.429  0.384    8.63
78)  ethyl methacrylate
      0.250 0.271       0.313 0.310 0.236 0.342 0.292 0.260 0.349  0.292   13.79
79)  1,1,2-trichloroethane
      0.173 0.172 0.164 0.174 0.176 0.200 0.187 0.175 0.191 0.192  0.180    6.25
80)  2-hexanone
      0.069 0.072       0.083 0.075 0.070 0.089 0.078 0.082 0.094  0.079   11.19

81) I   chlorobenzene-d5      ----------------ISTD---------------------
82)  tetrachloroethene
      0.442 0.325 0.353 0.351 0.417 0.424 0.422 0.367 0.440 0.413  0.395   10.65
83)  1,3-dichloropropane
```

```
       0.522 0.494 0.479 0.494 0.511 0.561 0.533 0.512 0.566 0.550  0.522    5.69
 84)  butyl acetate
       0.192 0.196 0.176 0.201 0.194 0.194 0.225 0.204 0.225 0.233  0.204    8.82
 85)  dibromochloromethane
       0.292 0.286 0.290 0.314 0.344 0.300 0.370 0.309 0.311 0.361  0.318    9.48
 86)  1,2-dibromoethane
       0.278 0.268 0.240 0.274 0.282 0.290 0.305 0.276 0.292 0.305  0.281    6.82
 87)  3,3-Dimethyl-1-Butanol
       0.024 0.028       0.033 0.030 0.026 0.039 0.029 0.029 0.040  0.031   17.63
          ----- Quadratic regression -----                Coefficient =  0.9920
               Response Ratio = -0.00080 + 0.03030 *A + 0.00022 *A^2

 88)  chlorobenzene
       1.034 0.865 0.944 0.890 1.009 1.058 1.010 0.938 1.080 1.010  0.984    7.26
 89)  1,1,1,2-tetrachloroethane
       0.356 0.315 0.306 0.340 0.383 0.356 0.383 0.349 0.371 0.386  0.355    7.89
 90)  ethylbenzene
       1.940 1.509 1.885 1.595 1.835 2.022 1.762 1.686 1.947 1.827  1.801    9.07
 91)  m,p-xylene
       0.725 0.571 0.760 0.596 0.685 0.767 0.664 0.628 0.758 0.679  0.683   10.22
 92)  o-xylene
       0.684 0.551 0.644 0.589 0.669 0.686 0.655 0.623 0.689 0.664  0.645    7.07
 93)  styrene
       1.016 0.876 0.816 0.955 1.082 0.999 1.072 0.980 1.036 1.085  0.992    9.00
 94)  BUTYL ACRYLATE
                                                                    0.000#  -1.00
 95)  bromoform
       0.166 0.168       0.189 0.201 0.159 0.230 0.178 0.178 0.222  0.188   13.28

 96) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 97)  isopropylbenzene
       3.813 2.933 3.348 3.233 3.725 3.826 3.648 3.329 3.845 3.687  3.539    8.74
 98)  4-bromofluorobenzene (s)
       1.152 0.952       0.927 1.025       1.044 0.966 1.375 1.045  1.061   13.69
 99)  bromobenzene
       0.853 0.742 0.756 0.761 0.826 0.868 0.828 0.787 0.943 0.845  0.821    7.47
100)  cyclohexanone
       0.035 0.019       0.021 0.020 0.028 0.023 0.021 0.028 0.025  0.024   21.32
          ----- Quadratic regression -----                Coefficient =  0.9927
               Response Ratio = 0.00457 + 0.02059 *A + 0.00005 *A^2

101)  1,1,2,2-tetrachloroethane
       0.688 0.683 0.633 0.711 0.690 0.693 0.774 0.720 0.757 0.784  0.713    6.55
102)  trans-1,4-dichloro-2-butene
       0.189 0.197       0.207 0.202 0.209 0.232 0.209 0.213 0.233  0.210    6.95
103)  1,2,3-trichloropropane
       0.228 0.225       0.213 0.199 0.232 0.216 0.222 0.249 0.231  0.224    6.30
104)  n-propylbenzene
       4.391 3.395 3.749 3.658 4.183 4.223 3.951 3.790 4.440 4.175  3.996    8.56
105)  4-Ethyltoluene
       3.943 3.388 3.981 3.420 3.825 4.177 3.698 3.703 4.006 3.942  3.808    6.73
106)  2-chlorotoluene
       0.862 0.693 0.693 0.737 0.843 0.910 0.827 0.781 0.911 0.835  0.809    9.95
107)  4-chlorotoluene
       0.881 0.719 0.878 0.760 0.871 0.976 0.879 0.794 0.914 0.864  0.854    8.88
108)  1,3,5-trimethylbenzene
       3.148 2.474 2.738 2.652 3.020 3.085 2.954 2.743 3.155 2.994  2.896    7.97
109)  tert-butylbenzene
       2.685 2.077 2.201 2.266 2.670 2.591 2.630 2.265 2.641 2.608  2.463    9.42
110)  pentachloroethane
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** V3C3959-ICC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89017.D
Project: 508 West 24th Street, Manhattan, NY

```
       0.454 0.405 0.361 0.467 0.522 0.439 0.546 0.457 0.448 0.528  0.463   12.34
111)  1,2,4-trimethylbenzene
       3.146 2.521 3.045 2.706 3.062 3.255 3.015 2.809 3.292 3.036  2.989    8.12
112)  sec-butylbenzene
       4.000 3.089 3.302 3.364 3.910 3.908 3.803 3.334 3.926 3.866  3.650    9.23
113)  1,3-dichlorobenzene
       1.730 1.419 1.672 1.470 1.636 1.864 1.645 1.516 1.818 1.638  1.641    8.72
114)  p-isopropyltoluene
       3.291 2.558 2.790 2.797 3.259 3.135 3.189 2.800 3.234 3.214  3.027    8.66
115)  1,4-dichlorobenzene
       1.728 1.461 1.815 1.498 1.655 1.952 1.672 1.576 1.853 1.662  1.687    9.21
116)  1,2-dichlorobenzene
       1.570 1.392 1.542 1.405 1.510 1.670 1.538 1.466 1.727 1.549  1.537    6.83
117)  1,4-Diethylbenzene
       2.192 1.783 2.059 1.864 2.109 2.176 2.079 2.010 2.117 2.162  2.055    6.58
118)  n-butylbenzene
       1.861 1.412 1.579 1.513 1.749 1.811 1.727 1.536 1.852 1.740  1.678    9.33
119)  1,2,4,5-Tetramethylbenzene
       3.483 3.099 3.448 3.128 3.309 3.628 3.132 3.357 3.587 3.489  3.366    5.77
120)  1,2-dibromo-3-chloropropane
       0.130 0.136       0.140 0.124 0.175 0.148 0.140 0.161 0.155  0.145   11.07
121)  1,3,5-Trichlorobenzene
       1.376 1.172 1.447 1.224 1.329 1.500 1.288 1.256 1.533 1.366  1.349    8.81
122)  1,2,4-trichlorobenzene
       1.242 1.110 1.314 1.123 1.157 1.420 1.114 1.160 1.375 1.244  1.226    9.15
123)  hexachlorobutadiene
       0.756 0.563 0.691 0.594 0.665 0.724 0.613 0.574 0.801 0.691  0.667   12.01
124)  naphthalene
       2.740 2.544       2.555 2.269 3.384 2.283 2.634 3.246 2.734  2.710   14.15
125)  1,2,3-trichlorobenzene
       1.131 1.035 1.249 1.035 0.964 1.324 0.904 1.061 1.261 1.107  1.107   12.26
126)  hexachloroethane
       0.507 0.423 0.575 0.509 0.608 0.526 0.623 0.471 0.482 0.602  0.533   12.54
127)  Benzyl chloride
       1.441 1.422 1.357 1.447 1.453 1.434 1.603 1.433 1.591 1.655  1.483    6.53
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3C3959.M         Fri Jul 13 08:34:33 2012   ACCNJ
```

Initial Calibration Verification

Job Number: JB12195 **Sample:** V3C3959-ICV3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89023A.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\3C...959initial\3c89023A.D Vial: 15
Acq On : 11 Jul 2012 5:54 pm Operator: JUNTAEP
Sample : icv3959-50 Inst : MS3C
Misc : MS32337,V3C3959,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3C3959.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	94	-0.01	7.44
2	1,4-dioxane	0.103	0.108	-4.9	105	0.00	11.30
3	tertiary butyl alcohol	1.309	1.287	1.7	105	0.00	7.56
4 I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	9.66
5	chlorodifluoromethane	0.568	0.399	29.8#	84	0.00	4.00
6	dichlorodifluoromethane	0.851	0.740	13.0	98	0.00	3.98
7	chloromethane	0.690	0.611	11.4	102	0.00	4.35
8	vinyl chloride	0.651	0.591	9.2	102	0.00	4.61
9	bromomethane	0.366	0.344	6.0	102	0.00	5.28
10	chloroethane	0.350	0.319	8.9	104	0.00	5.46
11	Vinyl Bromide	0.341	0.314	7.9	116	0.00	5.80
12	Pentane	0.642	0.629	2.0	125	0.00	5.98
13	trichlorofluoromethane	0.814	0.727	10.7	104	0.00	5.90
14	ethyl ether	0.253	0.210	17.0	82	0.00	6.32
15	acrolein	0.081	0.073	9.9	89	0.00	6.60
16	1,1-dichloroethene	0.491	0.429	12.6	105	0.00	6.75
17	acetone	0.044	0.052	-18.2	130	0.00	6.82
18	allyl chloride	0.295	0.269	8.8	107	0.00	7.29
19	acetonitrile	0.038	0.034	10.5	102	0.00	7.29
20	iodomethane	0.763	0.691	9.4	102	0.00	7.05
21	iso-butyl alcohol	0.016	0.016	0.0	103	0.00	9.96
22	carbon disulfide	1.703	1.527	10.3	104	0.00	7.17
23	methylene chloride	0.554	0.485	12.5	100	0.00	7.49
24	methyl acetate	0.078	0.071	9.0	97	0.00	7.28
25	methyl tert butyl ether	1.477	1.340	9.3	98	0.00	7.80
26	trans-1,2-dichloroethene	0.545	0.480	11.9	104	0.00	7.85
27	di-isopropyl ether	1.740	1.678	3.6	108	0.00	8.38
28	ethyl tert-butyl ether	1.654	1.636	1.1	108	0.00	8.84
29	2-butanone	0.052	0.054	-3.8	107	0.00	9.12
30	1,1-dichloroethane	0.950	0.855	10.0	100	0.00	8.43
31	chloroprene	0.692	0.756	-9.2	126	0.00	8.52
32	acrylonitrile	0.157	0.144	8.3	97	0.00	7.83
33	vinyl acetate	0.081	0.087	-7.4	111	0.00	8.40
34	ethyl acetate	0.061	0.058	4.9	104	0.00	9.13
35	2,2-dichloropropane	0.807	0.778	3.6	108	0.00	9.16
36	cis-1,2-dichloroethene	0.587	0.509	13.3	101	0.00	9.17
37	propionitrile	0.061	0.056	8.2	94	0.00	9.25
38	Methyl Acrylate	0.058	0.056	3.4	94	0.00	9.21
39	bromochloromethane	0.234	0.213	9.0	98	0.00	9.48
40	tetrahydrofuran	0.161	0.138	14.3	95	0.00	9.51
41	chloroform	0.939	0.823	12.4	100	0.00	9.53

Initial Calibration Verification

Job Number: JB12195 **Sample:** V3C3959-ICV3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89023A.D
Project: 508 West 24th Street, Manhattan, NY

42		tert-Butyl Formate	0.382	0.415	-8.6	111	0.00	9.55
43	S	dibromofluoromethane (s)	0.452	0.400	11.5	101	0.00	9.73
44	S	1,2-dichloroethane-d4 (s)	0.547	0.457	16.5	97	0.00	10.15
45		freon 113	0.375	0.336	10.4	106	-0.01	6.70
46		methacrylonitrile	0.256	0.222	13.3	93	0.00	9.42
47		1,1,1-trichloroethane	0.817	0.755	7.6	102	0.00	9.77
48		Cyclohexane	0.825	0.775	6.1	106	0.00	9.84
49		Tert Amyl Alcohol	0.061	0.055	9.8	88	0.00	10.09
50		2,2,4-trimethylpentane	2.002	2.005	-0.1	118	0.00	10.18
51		tert-amyl methyl ether	1.484	1.473	0.7	108	0.00	10.23
52	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	10.58
53		epichlorohydrin	0.025	0.026	-4.0	105	0.00	11.84
54		n-butyl alcohol	0.009	0.009#	0.0	104	0.00	10.71
55		carbon tetrachloride	0.440	0.410	6.8	102	0.00	9.97
56		1,1-dichloropropene	0.451	0.415	8.0	104	0.00	9.95
57		hexane	0.431	0.412	4.4	115	0.00	8.13
58		benzene	1.341	1.202	10.4	102	0.00	10.22
59		heptane	0.248	0.260	-4.8	123	0.00	10.35
60		isopropyl acetate	0.569	0.623	-9.5	111	0.00	10.12
61		1,2-dichloroethane	0.399	0.353	11.5	96	0.00	10.24
62		trichloroethene	0.316	0.286	9.5	101	0.00	10.92
63		ethyl acrylate	0.320	0.325	-1.6	98	0.00	10.92
64		Tert-Amyl ethyl ether	0.524	0.501	4.4	101	0.00	11.06
65		2-nitropropane	0.086	0.077	10.5	97	0.00	11.71
66		2-chloroethyl vinyl ether	0.139	0.148	-6.5	107	0.00	11.71
67		methyl methacrylate	0.066	0.064	3.0	96	0.00	11.18
68		1,2-dichloropropane	0.306	0.283	7.5	100	0.00	11.20
69		methylcyclohexane	0.564	0.553	2.0	117	0.00	11.13
70		dibromomethane	0.160	0.146	8.8	97	0.00	11.36
71		bromodichloromethane	0.374	0.357	4.5	98	0.00	11.48
72		cis-1,3-dichloropropene	0.449	0.434	3.3	99	0.00	11.93
73	S	toluene-d8 (s)	1.039	0.939	9.6	105	0.00	12.20
74		4-methyl-2-pentanone	0.100	0.093	7.0	93	0.00	12.02
75		toluene	0.752	0.666	11.4	102	0.00	12.28
76		3-methyl-1-butanol	0.007	0.008#	-14.3	105	0.00	12.03
77		trans-1,3-dichloropropene	0.384	0.379	1.3	98	0.00	12.48
78		ethyl methacrylate	0.292	0.295	-1.0	95	0.00	12.46
79		1,1,2-trichloroethane	0.180	0.166	7.8	97	0.00	12.70
80		2-hexanone	0.079	0.086	-8.9	105	0.00	12.85
81	I	chlorobenzene-d5	1.000	1.000	0.0	99	0.00	13.71
82		tetrachloroethene	0.395	0.367	7.1	103	0.00	12.85
83		1,3-dichloropropane	0.522	0.480	8.0	96	0.00	12.88
84		butyl acetate	0.204	0.215	-5.4	105	0.00	12.92
85		dibromochloromethane	0.318	0.309	2.8	97	0.00	13.14
86		1,2-dibromoethane	0.281	0.264	6.0	95	0.00	13.29
		----------	True	Calc.	% Drift	----------		
87		3,3-Dimethyl-1-Butanol	500.000	514.422	-2.9	101	0.00	13.02
		----------	AvgRF	CCRF	% Dev	----------		
88		chlorobenzene	0.984	0.899	8.6	100	0.00	13.73
89		1,1,1,2-tetrachloroethane	0.355	0.339	4.5	99	0.00	13.79
90		ethylbenzene	1.801	1.638	9.1	101	0.00	13.78
91		m,p-xylene	0.683	0.616	9.8	102	0.00	13.88
92		o-xylene	0.645	0.598	7.3	100	0.00	14.30
93		styrene	0.992	0.970	2.2	100	0.00	14.31
94		BUTYL ACRYLATE		----------NA----------				
95		bromoform	0.188	0.185	1.6	97	0.00	14.59

Initial Calibration Verification

Job Number: JB12195 **Sample:** V3C3959-ICV3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89023A.D
Project: 508 West 24th Street, Manhattan, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	16.00
97		isopropylbenzene	3.539	3.360	5.1	102	0.00	14.63
98	S	4-bromofluorobenzene (s)	1.061	0.986	7.1	105	0.00	14.84
99		bromobenzene	0.821	0.758	7.7	98	0.00	15.04
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	500.000	2426.576	-385.3#	526	0.00	14.82
		----------	AvgRF	CCRF	% Dev	----------		
101		1,1,2,2-tetrachloroethane	0.713	0.682	4.3	94	0.00	14.95
102		trans-1,4-dichloro-2-bute	0.210	0.203	3.3	96	0.00	14.99
103		1,2,3-trichloropropane	0.224	0.202	9.8	93	0.00	15.03
104		n-propylbenzene	3.996	3.813	4.6	103	0.00	15.03
105		4-Ethyltoluene	3.808	3.819	-0.3	110	0.00	15.13
106		2-chlorotoluene	0.809	0.755	6.7	101	0.00	15.19
107		4-chlorotoluene	0.854	0.782	8.4	101	0.00	15.29
108		1,3,5-trimethylbenzene	2.896	2.699	6.8	100	0.00	15.18
109		tert-butylbenzene	2.463	2.368	3.9	103	0.00	15.53
110		pentachloroethane	0.463	0.466	-0.6	98	0.00	15.62
111		1,2,4-trimethylbenzene	2.989	2.772	7.3	101	0.00	15.57
112		sec-butylbenzene	3.650	3.517	3.6	103	0.00	15.74
113		1,3-dichlorobenzene	1.641	1.482	9.7	99	0.00	15.94
114		p-isopropyltoluene	3.027	2.940	2.9	103	0.00	15.86
115		1,4-dichlorobenzene	1.687	1.506	10.7	99	0.00	16.02
116		1,2-dichlorobenzene	1.537	1.402	8.8	98	0.00	16.41
117		1,4-Diethylbenzene	2.055	2.097	-2.0	111	0.00	16.24
118		n-butylbenzene	1.678	1.623	3.3	106	0.00	16.27
119		1,2,4,5-Tetramethylbenzen	3.366	3.367	-0.0	106	0.00	17.02
120		1,2-dibromo-3-chloropropa	0.145	0.130	10.3	92	0.00	17.19
121		1,3,5-Trichlorobenzene	1.349	1.245	7.7	100	0.00	17.36
122		1,2,4-trichlorobenzene	1.226	1.130	7.8	99	0.00	17.99
123		hexachlorobutadiene	0.667	0.647	3.0	107	0.00	18.10
124		naphthalene	2.710	2.442	9.9	94	0.00	18.28
125		1,2,3-trichlorobenzene	1.107	1.013	8.5	96	0.00	18.53
126		hexachloroethane	0.533	0.526	1.3	102	0.00	16.66
127		Benzyl chloride	1.483	1.767	-19.2	120	0.00	16.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3c89017.D M3C3959.M Fri Jul 13 08:37:18 2012 ACCNJ

6.9.5

6

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3985-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89624.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\3Ccore\v3c3985\3c89624.D Vial: 3
Acq On : 1 Aug 2012 10:45 am Operator: JUNTAEP
Sample : cc3959-20 Inst : MS3C
Misc : MS33353,V3C3985,5.0,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3C3959.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	101	-0.01	7.44
2		1,4-dioxane	0.103	0.108	-4.9	106	0.00	11.30
3		tertiary butyl alcohol	1.309	1.243	5.0	101	0.00	7.56
4	I	pentafluorobenzene	1.000	1.000	0.0	90	0.00	9.66
5		chlorodifluoromethane	0.568	0.483	15.0	87	0.00	4.01
6		dichlorodifluoromethane	0.851	0.884	-3.9	103	0.00	3.99
7		chloromethane	0.690	0.623	9.7	85	0.00	4.35
8		vinyl chloride	0.651	0.604	7.2	90	0.00	4.61
9		bromomethane	0.366	0.416	-13.7	98	0.00	5.29
10		chloroethane	0.350	0.337	3.7	91	0.00	5.46
11		Vinyl Bromide		----------NA----------				
12		Pentane		----------NA----------				
13		trichlorofluoromethane	0.814	0.819	-0.6	100	0.01	5.91
14		ethyl ether	0.253	0.238	5.9	76	0.00	6.32
15		acrolein	0.081	0.078	3.7	85	0.00	6.60
16		1,1-dichloroethene	0.491	0.468	4.7	101	0.00	6.75
17		acetone	0.044	0.051	-15.9	108	0.00	6.83
18		allyl chloride	0.295	0.319	-8.1	106	0.00	7.29
19		acetonitrile	0.038	0.037	2.6	96	0.00	7.29
20		iodomethane	0.763	0.818	-7.2	104	0.00	7.05
21		iso-butyl alcohol	0.016	0.017	-6.3	97	0.00	9.96
22		carbon disulfide	1.703	1.734	-1.8	103	0.00	7.17
23		methylene chloride	0.554	0.607	-9.6	103	0.00	7.49
24		methyl acetate	0.078	0.084	-7.7	103	0.00	7.28
25		methyl tert butyl ether	1.477	1.628	-10.2	102	0.00	7.80
26		trans-1,2-dichloroethene	0.545	0.551	-1.1	100	0.00	7.85
27		di-isopropyl ether	1.740	1.675	3.7	90	0.00	8.38
28		ethyl tert-butyl ether	1.654	1.712	-3.5	96	0.00	8.84
29		2-butanone	0.052	0.058	-11.5	102	0.00	9.13
30		1,1-dichloroethane	0.950	1.008	-6.1	101	0.00	8.43
31		chloroprene	0.692	0.614	11.3	86	0.00	8.53
32		acrylonitrile	0.157	0.176	-12.1	102	0.00	7.83
33		vinyl acetate	0.081	0.087	-7.4	100	-0.01	8.40
34		ethyl acetate	0.061	0.061	0.0	94	0.00	9.13
35		2,2-dichloropropane	0.807	0.864	-7.1	105	0.00	9.16
36		cis-1,2-dichloroethene	0.587	0.616	-4.9	103	0.00	9.16
37		propionitrile	0.061	0.072	-18.0	104	-0.01	9.24
38		Methyl Acrylate	0.058	0.065	-12.1	105	0.00	9.21
39		bromochloromethane	0.234	0.263	-12.4	105	0.00	9.48
40		tetrahydrofuran	0.161	0.169	-5.0	97	0.00	9.51
41		chloroform	0.939	0.993	-5.8	102	0.00	9.53

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3985-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89624.D
Project: 508 West 24th Street, Manhattan, NY

42		tert-Butyl Formate	0.382	0.422	-10.5	103	0.00	9.55
43	S	dibromofluoromethane (s)	0.452	0.469	-3.8	101	0.00	9.73
44	S	1,2-dichloroethane-d4 (s)	0.547	0.521	4.8	94	0.00	10.15
45		freon 113	0.375	0.334	10.9	89	0.00	6.71
46		methacrylonitrile	0.256	0.263	-2.7	99	0.00	9.42
47		1,1,1-trichloroethane	0.817	0.851	-4.2	100	0.00	9.77
48		Cyclohexane	0.825	0.829	-0.5	101	0.00	9.84
49		Tert Amyl Alcohol		----------NA----------				
50		2,2,4-trimethylpentane	2.002	1.837	8.2	97	0.00	10.18
51		tert-amyl methyl ether	1.484	1.556	-4.9	98	-0.01	10.22
52	I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.00	10.58
53		epichlorohydrin	0.025	0.025	0.0	102	0.00	11.84
54		n-butyl alcohol	0.009	0.009#	0.0	101	0.00	10.71
55		carbon tetrachloride	0.440	0.434	1.4	99	0.00	9.97
56		1,1-dichloropropene	0.451	0.436	3.3	100	0.00	9.94
57		hexane	0.431	0.366	15.1	90	-0.01	8.12
58		benzene	1.341	1.379	-2.8	103	0.00	10.21
59		heptane	0.248	0.220	11.3	98	0.00	10.35
60		isopropyl acetate	0.569	0.509	10.5	86	0.00	10.12
61		1,2-dichloroethane	0.399	0.439	-10.0	105	0.00	10.24
62		trichloroethene	0.316	0.317	-0.3	102	0.00	10.92
63		ethyl acrylate		----------NA----------				
64		Tert-Amyl ethyl ether		----------NA----------				
65		2-nitropropane	0.086	0.089	-3.5	108	0.00	11.70
66		2-chloroethyl vinyl ether	0.139	0.149	-7.2	100	0.00	11.71
67		methyl methacrylate	0.066	0.072	-9.1	103	0.00	11.18
68		1,2-dichloropropane	0.306	0.325	-6.2	102	-0.01	11.19
69		methylcyclohexane	0.564	0.483	14.4	90	0.00	11.13
70		dibromomethane	0.160	0.175	-9.4	106	0.00	11.36
71		bromodichloromethane	0.374	0.415	-11.0	105	-0.01	11.48
72		cis-1,3-dichloropropene	0.449	0.499	-11.1	106	0.00	11.93
73	S	toluene-d8 (s)	1.039	1.057	-1.7	105	0.00	12.20
74		4-methyl-2-pentanone	0.100	0.109	-9.0	99	0.00	12.02
75		toluene	0.752	0.732	2.7	100	0.00	12.27
76		3-methyl-1-butanol	0.007	0.008#	-14.3	98	0.00	12.03
77		trans-1,3-dichloropropene	0.384	0.439	-14.3	106	0.00	12.48
78		ethyl methacrylate	0.292	0.318	-8.9	102	0.00	12.46
79		1,1,2-trichloroethane	0.180	0.196	-8.9	105	0.00	12.70
80		2-hexanone	0.079	0.083	-5.1	99	0.00	12.85
81	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	13.70
82		tetrachloroethene	0.395	0.390	1.3	101	0.00	12.85
83		1,3-dichloropropane	0.522	0.560	-7.3	104	0.00	12.87
84		butyl acetate	0.204	0.196	3.9	91	0.00	12.92
85		dibromochloromethane	0.318	0.346	-8.8	106	0.00	13.14
86		1,2-dibromoethane	0.281	0.310	-10.3	106	0.00	13.29
		----------	True	Calc.	% Drift	----------		
87		3,3-Dimethyl-1-Butanol	200.000	183.404	8.3	93	0.00	13.02
		----------	AvgRF	CCRF	% Dev	----------		
88		chlorobenzene	0.984	1.004	-2.0	101	0.00	13.73
89		1,1,1,2-tetrachloroethane	0.355	0.386	-8.7	105	0.00	13.79
90		ethylbenzene	1.801	1.736	3.6	98	0.00	13.77
91		m,p-xylene	0.683	0.651	4.7	98	0.00	13.88
92		o-xylene	0.645	0.646	-0.2	98	0.00	14.30
93		styrene	0.992	1.038	-4.6	100	0.00	14.31
94		BUTYL ACRYLATE		----------NA----------				
95		bromoform	0.188	0.208	-10.6	111	0.00	14.58

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3985-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89624.D
Project: 508 West 24th Street, Manhattan, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	15.99
97		isopropylbenzene	3.539	3.337	5.7	98	0.00	14.63
98	S	4-bromofluorobenzene (s)	1.061	0.987	7.0	100	0.00	14.84
99		bromobenzene	0.821	0.852	-3.8	105	0.00	15.03
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	200.000	562.359	-181.2#	287	0.00	14.81
		----------	AvgRF	CCRF	% Dev	----------		
101		1,1,2,2-tetrachloroethane	0.713	0.747	-4.8	101	0.00	14.95
102		trans-1,4-dichloro-2-bute	0.210	0.209	0.5	98	0.00	14.99
103		1,2,3-trichloropropane	0.224	0.239	-6.7	105	0.00	15.02
104		n-propylbenzene	3.996	3.802	4.9	98	0.00	15.03
105		4-Ethyltoluene		----------NA----------				
106		2-chlorotoluene	0.809	0.802	0.9	100	0.00	15.19
107		4-chlorotoluene	0.854	0.832	2.6	102	0.00	15.29
108		1,3,5-trimethylbenzene	2.896	2.804	3.2	100	0.00	15.18
109		tert-butylbenzene	2.463	2.297	6.7	99	0.00	15.53
110		pentachloroethane	0.463	0.507	-9.5	108	0.00	15.62
111		1,2,4-trimethylbenzene	2.989	2.840	5.0	99	0.00	15.57
112		sec-butylbenzene	3.650	3.438	5.8	101	0.00	15.73
113		1,3-dichlorobenzene	1.641	1.640	0.1	105	0.00	15.93
114		p-isopropyltoluene	3.027	2.863	5.4	100	0.00	15.85
115		1,4-dichlorobenzene	1.687	1.681	0.4	104	0.00	16.02
116		1,2-dichlorobenzene	1.537	1.568	-2.0	104	0.00	16.41
117		1,4-Diethylbenzene		----------NA----------				
118		n-butylbenzene	1.678	1.506	10.3	96	0.00	16.26
119		1,2,4,5-Tetramethylbenzen		----------NA----------				
120		1,2-dibromo-3-chloropropa	0.145	0.144	0.7	100	0.00	17.19
121		1,3,5-Trichlorobenzene	1.349	1.381	-2.4	107	0.00	17.36
122		1,2,4-trichlorobenzene	1.226	1.292	-5.4	109	0.00	17.99
123		hexachlorobutadiene	0.667	0.704	-5.5	120	0.00	18.09
124		naphthalene	2.710	2.810	-3.7	104	0.00	18.28
125		1,2,3-trichlorobenzene	1.107	1.183	-6.9	109	0.00	18.53
126		hexachloroethane	0.533	0.521	2.3	108	0.00	16.66
127		Benzyl chloride	1.483	1.538	-3.7	105	0.00	16.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3c89016.D M3C3959.M Wed Aug 01 17:23:39 2012 MS

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3986-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89643.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\3Ccore\v3c3986\3c89643.D Vial: 2
Acq On : 2 Aug 2012 9:38 am Operator: JUNTAEP
Sample : cc3959-20 Inst : MS3C
Misc : MS33244,V3C3986,5.0,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3C3959.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	84	-0.01	7.44
2		1,4-dioxane	0.103	0.118	-14.6	95	-0.01	11.29
3		tertiary butyl alcohol	1.309	1.292	1.3	87	0.00	7.55
4	I	pentafluorobenzene	1.000	1.000	0.0	88	0.00	9.66
5		chlorodifluoromethane	0.568	0.528	7.0	93	0.00	4.01
6		dichlorodifluoromethane	0.851	0.820	3.6	93	0.00	3.98
7		chloromethane	0.690	0.598	13.3	80	0.00	4.35
8		vinyl chloride	0.651	0.563	13.5	82	0.00	4.61
9		bromomethane	0.366	0.408	-11.5	94	0.00	5.28
10		chloroethane	0.350	0.330	5.7	87	0.00	5.46
11		Vinyl Bromide		----------NA----------				
12		Pentane		----------NA----------				
13		trichlorofluoromethane	0.814	0.800	1.7	95	0.00	5.90
14		ethyl ether	0.253	0.230	9.1	72	0.00	6.32
15		acrolein	0.081	0.072	11.1	77	-0.01	6.60
16		1,1-dichloroethene	0.491	0.458	6.7	97	0.00	6.75
17		acetone	0.044	0.043	2.3	90	0.00	6.82
18		allyl chloride	0.295	0.292	1.0	95	-0.01	7.29
19		acetonitrile	0.038	0.036	5.3	92	0.00	7.28
20		iodomethane	0.763	0.794	-4.1	98	0.00	7.04
21		iso-butyl alcohol	0.016	0.015	6.3	87	0.00	9.96
22		carbon disulfide	1.703	1.673	1.8	97	0.00	7.16
23		methylene chloride	0.554	0.597	-7.8	99	-0.01	7.49
24		methyl acetate	0.078	0.077	1.3	92	-0.01	7.27
25		methyl tert butyl ether	1.477	1.533	-3.8	94	-0.01	7.79
26		trans-1,2-dichloroethene	0.545	0.534	2.0	94	-0.01	7.85
27		di-isopropyl ether	1.740	1.741	-0.1	92	-0.01	8.37
28		ethyl tert-butyl ether	1.654	1.757	-6.2	96	-0.01	8.84
29		2-butanone	0.052	0.054	-3.8	94	0.00	9.13
30		1,1-dichloroethane	0.950	0.984	-3.6	96	-0.01	8.42
31		chloroprene	0.692	0.669	3.3	92	0.00	8.52
32		acrylonitrile	0.157	0.161	-2.5	91	-0.02	7.82
33		vinyl acetate	0.081	0.085	-4.9	95	-0.01	8.40
34		ethyl acetate	0.061	0.056	8.2	86	0.00	9.13
35		2,2-dichloropropane	0.807	0.868	-7.6	103	0.00	9.16
36		cis-1,2-dichloroethene	0.587	0.595	-1.4	98	0.00	9.16
37		propionitrile	0.061	0.063	-3.3	90	-0.01	9.24
38		Methyl Acrylate	0.058	0.060	-3.4	94	0.00	9.21
39		bromochloromethane	0.234	0.253	-8.1	98	-0.01	9.47
40		tetrahydrofuran	0.161	0.150	6.8	84	0.00	9.50
41		chloroform	0.939	0.975	-3.8	98	0.00	9.53

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3986-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89643.D
Project: 508 West 24th Street, Manhattan, NY

42		tert-Butyl Formate	0.382	0.424	-11.0	101	-0.01	9.55
43	S	dibromofluoromethane (s)	0.452	0.469	-3.8	99	-0.01	9.73
44	S	1,2-dichloroethane-d4 (s)	0.547	0.521	4.8	92	0.00	10.15
45		freon 113	0.375	0.374	0.3	98	0.00	6.71
46		methacrylonitrile	0.256	0.238	7.0	88	0.00	9.42
47		1,1,1-trichloroethane	0.817	0.848	-3.8	97	-0.01	9.77
48		Cyclohexane	0.825	0.795	3.6	95	-0.01	9.83
49		Tert Amyl Alcohol		----------NA----------				
50		2,2,4-trimethylpentane	2.002	1.937	3.2	100	0.00	10.18
51		tert-amyl methyl ether	1.484	1.572	-5.9	96	-0.01	10.22
52	I	1,4-difluorobenzene	1.000	1.000	0.0	92	0.00	10.58
53		epichlorohydrin	0.025	0.024	4.0	94	0.00	11.84
54		n-butyl alcohol	0.009	0.008#	11.1	89	0.00	10.70
55		carbon tetrachloride	0.440	0.433	1.6	97	-0.01	9.97
56		1,1-dichloropropene	0.451	0.423	6.2	95	-0.01	9.94
57		hexane	0.431	0.369	14.4	89	-0.01	8.12
58		benzene	1.341	1.337	0.3	98	0.00	10.21
59		heptane	0.248	0.237	4.4	103	0.00	10.35
60		isopropyl acetate	0.569	0.476	16.3	79	-0.01	10.12
61		1,2-dichloroethane	0.399	0.422	-5.8	99	-0.01	10.24
62		trichloroethene	0.316	0.308	2.5	97	0.00	10.92
63		ethyl acrylate		----------NA----------				
64		Tert-Amyl ethyl ether		----------NA----------				
65		2-nitropropane	0.086	0.081	5.8	97	0.00	11.70
66		2-chloroethyl vinyl ether	0.139	0.146	-5.0	96	0.00	11.70
67		methyl methacrylate	0.066	0.065	1.5	91	0.00	11.18
68		1,2-dichloropropane	0.306	0.315	-2.9	97	-0.01	11.19
69		methylcyclohexane	0.564	0.516	8.5	94	0.00	11.12
70		dibromomethane	0.160	0.167	-4.4	99	-0.01	11.35
71		bromodichloromethane	0.374	0.405	-8.3	100	-0.01	11.48
72		cis-1,3-dichloropropene	0.449	0.483	-7.6	100	-0.01	11.92
73	S	toluene-d8 (s)	1.039	1.065	-2.5	104	-0.01	12.20
74		4-methyl-2-pentanone	0.100	0.095	5.0	85	-0.01	12.01
75		toluene	0.752	0.720	4.3	97	0.00	12.27
76		3-methyl-1-butanol	0.007	0.007#	0.0	87	0.00	12.03
77		trans-1,3-dichloropropene	0.384	0.427	-11.2	101	-0.01	12.48
78		ethyl methacrylate	0.292	0.287	1.7	90	0.00	12.46
79		1,1,2-trichloroethane	0.180	0.185	-2.8	97	0.00	12.70
80		2-hexanone	0.079	0.073	7.6	85	0.00	12.85
81	I	chlorobenzene-d5	1.000	1.000	0.0	94	0.00	13.70
82		tetrachloroethene	0.395	0.368	6.8	94	0.00	12.85
83		1,3-dichloropropane	0.522	0.526	-0.8	96	0.00	12.87
84		butyl acetate	0.204	0.185	9.3	85	0.00	12.92
85		dibromochloromethane	0.318	0.336	-5.7	102	-0.01	13.14
86		1,2-dibromoethane	0.281	0.287	-2.1	98	0.00	13.29
		----------	True	Calc.	% Drift	----------		
87		3,3-Dimethyl-1-Butanol	200.000	166.607	16.7	83	0.00	13.02
		----------	AvgRF	CCRF	% Dev	----------		
88		chlorobenzene	0.984	0.967	1.7	97	0.00	13.73
89		1,1,1,2-tetrachloroethane	0.355	0.372	-4.8	100	0.00	13.79
90		ethylbenzene	1.801	1.677	6.9	93	0.00	13.77
91		m,p-xylene	0.683	0.630	7.8	94	0.00	13.88
92		o-xylene	0.645	0.628	2.6	94	-0.01	14.29
93		styrene	0.992	0.998	-0.6	95	0.00	14.31
94		BUTYL ACRYLATE		----------NA----------				
95		bromoform	0.188	0.198	-5.3	104	0.00	14.58

Continuing Calibration Summary

Job Number: JB12195 **Sample:** V3C3986-CC3959
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3C89643.D
Project: 508 West 24th Street, Manhattan, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	15.99
97		isopropylbenzene	3.539	3.131	11.5	93	0.00	14.63
98	S	4-bromofluorobenzene (s)	1.061	0.982	7.4	100	0.00	14.84
99		bromobenzene	0.821	0.811	1.2	102	0.00	15.03
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	200.000	455.005	-127.5#	235	0.00	14.81
		----------	AvgRF	CCRF	% Dev	----------		
101		1,1,2,2-tetrachloroethane	0.713	0.662	7.2	91	0.00	14.95
102		trans-1,4-dichloro-2-bute	0.210	0.197	6.2	93	0.00	14.99
103		1,2,3-trichloropropane	0.224	0.210	6.3	93	0.00	15.02
104		n-propylbenzene	3.996	3.580	10.4	93	0.00	15.03
105		4-Ethyltoluene		----------NA----------				
106		2-chlorotoluene	0.809	0.759	6.2	96	0.00	15.19
107		4-chlorotoluene	0.854	0.777	9.0	97	0.00	15.28
108		1,3,5-trimethylbenzene	2.896	2.692	7.0	97	0.00	15.18
109		tert-butylbenzene	2.463	2.238	9.1	97	0.00	15.52
110		pentachloroethane	0.463	0.488	-5.4	105	0.00	15.62
111		1,2,4-trimethylbenzene	2.989	2.716	9.1	95	0.00	15.57
112		sec-butylbenzene	3.650	3.271	10.4	97	0.00	15.73
113		1,3-dichlorobenzene	1.641	1.552	5.4	101	0.00	15.93
114		p-isopropyltoluene	3.027	2.788	7.9	98	0.00	15.85
115		1,4-dichlorobenzene	1.687	1.592	5.6	100	0.00	16.02
116		1,2-dichlorobenzene	1.537	1.485	3.4	100	0.00	16.41
117		1,4-Diethylbenzene		----------NA----------				
118		n-butylbenzene	1.678	1.439	14.2	92	0.00	16.26
119		1,2,4,5-Tetramethylbenzen		----------NA----------				
120		1,2-dibromo-3-chloropropa	0.145	0.128	11.7	90	-0.01	17.18
121		1,3,5-Trichlorobenzene	1.349	1.332	1.3	105	0.00	17.36
122		1,2,4-trichlorobenzene	1.226	1.215	0.9	103	0.00	17.99
123		hexachlorobutadiene	0.667	0.684	-2.5	118	0.00	18.09
124		naphthalene	2.710	2.456	9.4	92	0.00	18.28
125		1,2,3-trichlorobenzene	1.107	1.102	0.5	103	0.00	18.53
126		hexachloroethane	0.533	0.500	6.2	105	0.00	16.66
127		Benzyl chloride	1.483	1.478	0.3	102	-0.01	16.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3c89016.D M3C3959.M Fri Aug 03 16:45:48 2012 MS

6.9.7

6

New Jersey
ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MB1	3E43113.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	140	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	140	5.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	57	10	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
100-52-7	Benzaldehyde	ND	140	6.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	57	8.9	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
105-60-2	Caprolactam	ND	57	9.0	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	57	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MB1	3E43113.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	57	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	57	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	140	7.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	57	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	77%	21-116%

Method Blank Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MB1	3E43113.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	74%	19-117%
118-79-6	2,4,6-Tribromophenol	110%	24-136%
4165-60-0	Nitrobenzene-d5	71%	21-122%
321-60-8	2-Fluorobiphenyl	64%	30-117%
1718-51-0	Terphenyl-d14	102%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.65	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-BS1	3E43114.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	1340	94	51-111
59-50-7	4-Chloro-3-methyl phenol	1430	1460	102	54-121
120-83-2	2,4-Dichlorophenol	1430	1360	95	51-120
105-67-9	2,4-Dimethylphenol	1430	1390	97	55-131
51-28-5	2,4-Dinitrophenol	2860	3150	110	19-144
534-52-1	4,6-Dinitro-o-cresol	1430	1580	111	33-126
95-48-7	2-Methylphenol	1430	1400	98	49-115
	3&4-Methylphenol	1430	1410	99	49-115
88-75-5	2-Nitrophenol	1430	1300	91	47-122
100-02-7	4-Nitrophenol	1430	1570	110	10-137
87-86-5	Pentachlorophenol	1430	1270	89	17-126
108-95-2	Phenol	1430	1400	98	47-111
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1400	98	43-116
95-95-4	2,4,5-Trichlorophenol	1430	1310	92	56-120
88-06-2	2,4,6-Trichlorophenol	1430	1310	92	55-118
83-32-9	Acenaphthene	1430	1180	83	55-114
208-96-8	Acenaphthylene	1430	1110	78	50-103
98-86-2	Acetophenone	1430	1450	102	53-121
120-12-7	Anthracene	1430	1240	87	59-121
1912-24-9	Atrazine	1430	1530	107	58-137
56-55-3	Benzo(a)anthracene	1430	1310	92	54-119
50-32-8	Benzo(a)pyrene	1430	1360	95	59-122
205-99-2	Benzo(b)fluoranthene	1430	1170	82	45-133
191-24-2	Benzo(g,h,i)perylene	1430	1420	99	57-122
207-08-9	Benzo(k)fluoranthene	1430	1580	111	49-131
101-55-3	4-Bromophenyl phenyl ether	1430	1140	80	58-122
85-68-7	Butyl benzyl phthalate	1430	1310	92	54-132
92-52-4	1,1'-Biphenyl	1430	1280	90	54-116
100-52-7	Benzaldehyde	1430	1110	78	32-125
91-58-7	2-Chloronaphthalene	1430	1130	79	53-113
106-47-8	4-Chloroaniline	1430	1220	85	26-102
86-74-8	Carbazole	1430	1320	92	60-121
105-60-2	Caprolactam	1430	1980	139* [a]	32-136
218-01-9	Chrysene	1430	1370	96	55-120
111-91-1	bis(2-Chloroethoxy)methane	1430	1290	90	49-120
111-44-4	bis(2-Chloroethyl)ether	1430	1190	83	42-113

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-BS1	3E43114.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	1150	81	36-118
7005-72-3	4-Chlorophenyl phenyl ether	1430	1250	88	53-117
121-14-2	2,4-Dinitrotoluene	1430	1470	103	57-122
606-20-2	2,6-Dinitrotoluene	1430	1460	102	51-133
91-94-1	3,3'-Dichlorobenzidine	1430	1370	96	27-121
53-70-3	Dibenzo(a,h)anthracene	1430	1430	100	58-125
132-64-9	Dibenzofuran	1430	1180	83	57-111
84-74-2	Di-n-butyl phthalate	1430	1400	98	59-125
117-84-0	Di-n-octyl phthalate	1430	1350	95	53-136
84-66-2	Diethyl phthalate	1430	1350	95	56-118
131-11-3	Dimethyl phthalate	1430	1270	89	57-116
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1300	91	54-133
206-44-0	Fluoranthene	1430	1450	102	57-119
86-73-7	Fluorene	1430	1310	92	57-117
118-74-1	Hexachlorobenzene	1430	1150	81	55-122
87-68-3	Hexachlorobutadiene	1430	1030	72	43-126
77-47-4	Hexachlorocyclopentadiene	2860	2060	72	24-167
67-72-1	Hexachloroethane	1430	992	69	44-113
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1450	102	57-127
78-59-1	Isophorone	1430	1290	90	42-124
91-57-6	2-Methylnaphthalene	1430	1190	83	46-114
88-74-4	2-Nitroaniline	1430	1430	100	47-132
99-09-2	3-Nitroaniline	1430	1400	98	34-106
100-01-6	4-Nitroaniline	1430	1590	111	46-121
91-20-3	Naphthalene	1430	1120	78	49-111
98-95-3	Nitrobenzene	1430	1150	81	48-114
621-64-7	N-Nitroso-di-n-propylamine	1430	1300	91	44-119
86-30-6	N-Nitrosodiphenylamine	1430	1120	78	58-117
85-01-8	Phenanthrene	1430	1220	85	58-118
129-00-0	Pyrene	1430	1200	84	54-122
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	988	69	44-126

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	92%	21-116%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-BS1	3E43114.D	1	07/28/12	KLS	07/27/12	OP58564	E3E1888

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	98%	19-117%
118-79-6	2,4,6-Tribromophenol	90%	24-136%
4165-60-0	Nitrobenzene-d5	84%	21-122%
321-60-8	2-Fluorobiphenyl	76%	30-117%
1718-51-0	Terphenyl-d14	96%	31-129%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MS [a]	3E43134.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
OP58564-MSD [a]	3E43135.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A [a]	3E43133.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A	3E43144.D	20	07/30/12	OYA	07/27/12	OP58564	E3E1889

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	JB12089-2A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1720	775	45	1720	680	40	13	30-111/32
59-50-7	4-Chloro-3-methyl phenol	ND		1720	1360	79	1720	1130	66	18	33-124/31
120-83-2	2,4-Dichlorophenol	ND		1720	1120	65	1720	1010	59	10	31-121/33
105-67-9	2,4-Dimethylphenol	ND		1720	1150	67	1720	989	58	15	30-136/32
51-28-5	2,4-Dinitrophenol	ND		3430	2090	61	3430	2200	64	5	10-131/48
534-52-1	4,6-Dinitro-o-cresol	ND		1720	ND	0* [b]	1720	ND	0* [b]	nc	10-123/48
95-48-7	2-Methylphenol	ND		1720	922	54	1720	794	46	15	28-119/30
	3&4-Methylphenol	ND		1720	992	58	1720	843	49	16	27-120/32
88-75-5	2-Nitrophenol	ND		1720	759	44	1720	721	42	5	24-118/35
100-02-7	4-Nitrophenol	ND		1720	1320	77	1720	2210	129	50* [b]	10-137/43
87-86-5	Pentachlorophenol	ND		1720	1130	66	1720	867	51	26	11-121/35
108-95-2	Phenol	ND		1720	825	48	1720	701	41	16	27-114/32
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1720	1250	73	1720	954	56	27	26-119/34
95-95-4	2,4,5-Trichlorophenol	ND		1720	1320	77	1720	1110	65	17	35-124/33
88-06-2	2,4,6-Trichlorophenol	ND		1720	1440	84	1720	1210	71	17	34-122/31
83-32-9	Acenaphthene	1570		1720	2650	63	1720	2780	71	5	30-122/31
208-96-8	Acenaphthylene	ND		1720	1230	72	1720	1060	62	15	32-107/29
98-86-2	Acetophenone	ND		1720	981	57	1720	998	58	2	28-126/33
120-12-7	Anthracene	5910		1720	6230	19* [c]	1720	7250	78	15	33-130/30
1912-24-9	Atrazine	ND		1720	1570	91	1720	1240	72	23	32-140/32
56-55-3	Benzo(a)anthracene	5240		1720	5640	23* [c]	1720	6580	78	15	29-127/33
50-32-8	Benzo(a)pyrene	4700		1720	5490	46	1720	6080	80	10	28-134/34
205-99-2	Benzo(b)fluoranthene	1540		1720	2490	55	1720	2670	66	7	19-143/38
191-24-2	Benzo(g,h,i)perylene	5470		1720	5980	30	1720	6790	77	13	27-135/34
207-08-9	Benzo(k)fluoranthene	571		1720	2250	98	1720	1570	58	36	20-138/40
101-55-3	4-Bromophenyl phenyl ether	ND		1720	120	7* [b]	1720	1100	64	161* [b]	35-127/29
85-68-7	Butyl benzyl phthalate	ND		1720	1460	85	1720	1380	80	6	31-136/32
92-52-4	1,1'-Biphenyl	133	J	1720	1400	74	1720	1270	66	10	33-121/28
100-52-7	Benzaldehyde	ND		1720	644	38	1720	635	37	1	18-128/33
91-58-7	2-Chloronaphthalene	ND		1720	1260	73	1720	1120	65	12	34-113/29
106-47-8	4-Chloroaniline	ND		1720	950	55	1720	784	46	19	10-109/35
86-74-8	Carbazole	ND		1720	1450	84	1720	1180	69	21	37-126/31
105-60-2	Caprolactam	ND		1720	2060	120	1720	1470	86	33	12-137/37
218-01-9	Chrysene	7820		1720	7680	-8* [c]	1720	8870	61	14	29-129/32
111-91-1	bis(2-Chloroethoxy)methane	ND		1720	1030	60	1720	962	56	7	28-121/32
111-44-4	bis(2-Chloroethyl)ether	ND		1720	736	43	1720	714	42	3	19-116/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MS [a]	3E43134.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
OP58564-MSD [a]	3E43135.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A [a]	3E43133.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A	3E43144.D	20	07/30/12	OYA	07/27/12	OP58564	E3E1889

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Compound	JB12089-2A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1720	877	51	1720	868	51	1	22-112/31
7005-72-3	4-Chlorophenyl phenyl ether	ND		1720	1510	88	1720	1370	80	10	36-118/28
121-14-2	2,4-Dinitrotoluene	ND		1720	1520	89	1720	1340	78	13	28-128/34
606-20-2	2,6-Dinitrotoluene	ND		1720	1910	111	1720	1750	102	9	31-133/31
91-94-1	3,3'-Dichlorobenzidine	ND		1720	1220	71	1720	1130	66	8	10-124/39
53-70-3	Dibenzo(a,h)anthracene	621		1720	2790	126	1720	2980	137* [b]	7	32-135/34
132-64-9	Dibenzofuran	1730		1720	2640	53	1720	2730	58	3	34-118/30
84-74-2	Di-n-butyl phthalate	ND		1720	1550	90	1720	1320	77	16	37-128/29
117-84-0	Di-n-octyl phthalate	ND		1720	1710	100	1720	1270	74	30	29-139/33
84-66-2	Diethyl phthalate	ND		1720	1330	77	1720	1140	66	15	36-121/30
131-11-3	Dimethyl phthalate	ND		1720	1280	75	1720	1120	65	13	37-121/29
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1720	1650	96	1720	1260	73	27	26-145/34
206-44-0	Fluoranthene	4210		1720	5250	61	1720	5570	79	6	25-132/33
86-73-7	Fluorene	6430		1720	6660	13* [c]	1720	7510	63	12	32-125/32
118-74-1	Hexachlorobenzene	ND		1720	1270	74	1720	1040	61	20	34-122/29
87-68-3	Hexachlorobutadiene	ND		1720	867	51	1720	799	47	8	26-119/32
77-47-4	Hexachlorocyclopentadiene	ND		3430	ND	0* [b]	3430	ND	0* [b]	nc	10-146/42
67-72-1	Hexachloroethane	ND		1720	578	34	1720	511	30	12	22-104/32
193-39-5	Indeno(1,2,3-cd)pyrene	1100		1720	2870	103	1720	2710	94	6	29-138/35
78-59-1	Isophorone	ND		1720	1030	60	1720	940	55	9	26-121/31
91-57-6	2-Methylnaphthalene	1500		1720	1970	27	1720	2080	34	5	23-121/32
88-74-4	2-Nitroaniline	ND		1720	1900	111	1720	1770	103	7	28-135/32
99-09-2	3-Nitroaniline	ND		1720	1290	75	1720	1110	65	15	16-115/36
100-01-6	4-Nitroaniline	ND		1720	1570	91	1720	1540	90	2	17-121/36
91-20-3	Naphthalene	374		1720	1180	47	1720	1220	49	3	25-117/32
98-95-3	Nitrobenzene	ND		1720	894	52	1720	945	55	6	27-115/32
621-64-7	N-Nitroso-di-n-propylamine	ND		1720	1020	59	1720	1000	58	2	26-119/32
86-30-6	N-Nitrosodiphenylamine	ND		1720	2360	138* [b]	1720	2830	165* [b]	18	33-132/30
85-01-8	Phenanthrene	25100 [d]		1720	23300	-35* [c]	1720	29000	297* [c]	22	28-132/34
129-00-0	Pyrene	29200 [d]		1720	24900	-192* [c]	1720	32200	233* [c]	26	27-132/33
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1720	1110	65	1720	934	54	17	28-120/29

CAS No.	Surrogate Recoveries	MS	MSD	JB12089-2A	JB12089-2A	Limits
367-12-4	2-Fluorophenol	37%	33%	44%	51%	21-116%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58564-MS [a]	3E43134.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
OP58564-MSD [a]	3E43135.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A [a]	3E43133.D	5	07/28/12	KLS	07/27/12	OP58564	E3E1888
JB12089-2A	3E43144.D	20	07/30/12	OYA	07/27/12	OP58564	E3E1889

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB12195-1, JB12195-2, JB12195-3, JB12195-4, JB12195-5, JB12195-6

CAS No.	Surrogate Recoveries	MS	MSD	JB12089-2A	JB12089-2A	Limits
4165-62-2	Phenol-d5	47%	40%	56%	60%	19-117%
118-79-6	2,4,6-Tribromophenol	82%	65%	97%	110%	24-136%
4165-60-0	Nitrobenzene-d5	53%	53%	62%	72%	21-122%
321-60-8	2-Fluorobiphenyl	69%	62%	78%	79%	30-117%
1718-51-0	Terphenyl-d14	90%	87%	101%	99%	31-129%

(a) Dilution required due to viscosity of extract matrix
(b) Outside control limits due to matrix interference and dilution.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) Result is from Run #2.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1884-DFTPP
Lab File ID: 3E43034.D
Instrument ID: GCMS3E
Injection Date: 07/25/12
Injection Time: 09:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	64376	34.0		Pass
68	Less than 2.0% of mass 69	1215	0.64	(1.77) [a]	Pass
69	Mass 69 relative abundance	68631	36.2		Pass
70	Less than 2.0% of mass 69	366	0.19	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	100669	53.2		Pass
197	Less than 1.0% of mass 198	388	0.20		Pass
198	Base peak, 100% relative abundance	189370	100.0		Pass
199	5.0 - 9.0% of mass 198	12804	6.76		Pass
275	10.0 - 30.0% of mass 198	46144	24.4		Pass
365	1.0 - 100.0% of mass 198	4851	2.56		Pass
441	Present, but less than mass 443	19064	10.1	(80.0) [b]	Pass
442	40.0 - 100.0% of mass 198	119474	63.1		Pass
443	17.0 - 23.0% of mass 442	23842	12.6	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E1884-IC1884	3E43035.D	07/25/12	10:42	00:49	Initial cal 100
E3E1884-IC1884	3E43036.D	07/25/12	11:13	01:20	Initial cal 2
E3E1884-IC1884	3E43037.D	07/25/12	11:40	01:47	Initial cal 1
E3E1884-ICC1884	3E43038.D	07/25/12	12:05	02:12	Initial cal 50
E3E1884-IC1884	3E43039.D	07/25/12	12:31	02:38	Initial cal 5
E3E1884-IC1884	3E43040.D	07/25/12	12:57	03:04	Initial cal 10
E3E1884-IC1884	3E43041.D	07/25/12	13:23	03:30	Initial cal 80
E3E1884-IC1884	3E43042.D	07/25/12	13:48	03:55	Initial cal 25

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1885-DFTPP
Lab File ID: 3E43043.D
Instrument ID: GCMS3E
Injection Date: 07/25/12
Injection Time: 14:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	56663	31.5		Pass
68	Less than 2.0% of mass 69	1011	0.56	(1.68) [a]	Pass
69	Mass 69 relative abundance	60167	33.4		Pass
70	Less than 2.0% of mass 69	270	0.15	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	91565	50.9		Pass
197	Less than 1.0% of mass 198	198	0.11		Pass
198	Base peak, 100% relative abundance	179986	100.0		Pass
199	5.0 - 9.0% of mass 198	12288	6.83		Pass
275	10.0 - 30.0% of mass 198	45952	25.5		Pass
365	1.0 - 100.0% of mass 198	5319	2.96		Pass
441	Present, but less than mass 443	18688	10.4	(76.2) [b]	Pass
442	40.0 - 100.0% of mass 198	127661	70.9		Pass
443	17.0 - 23.0% of mass 442	24515	13.6	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E1885-IC1885	3E43044.D	07/25/12	14:53	00:13	Initial cal 100
E3E1885-IC1885	3E43045.D	07/25/12	15:18	00:38	Initial cal 80
E3E1885-ICC1885	3E43046.D	07/25/12	15:42	01:02	Initial cal 50
E3E1885-IC1885	3E43047.D	07/25/12	16:07	01:27	Initial cal 25
E3E1885-IC1885	3E43050.D	07/25/12	16:32	01:52	Initial cal 2
E3E1885-IC1885	3E43048.D	07/25/12	16:57	02:17	Initial cal 10
E3E1885-IC1885	3E43049.D	07/25/12	17:22	02:42	Initial cal 5
E3E1885-IC1885	3E43051.D	07/25/12	17:47	03:07	Initial cal 1
E3E1885-ICV1884	3E43052.D	07/25/12	18:11	03:31	Initial cal verification 50
E3E1885-ICV1885	3E43053A.D	07/25/12	18:36	03:56	Initial cal verification 50
E3E1885-ICV1884	3E43053.D	07/25/12	18:36	03:56	Initial cal verification 50
E3E1885-ICV1884	3E43054.D	07/25/12	19:01	04:21	Initial cal verification 50
E3E1885-ICV1885	3E43054A.D	07/25/12	19:01	04:21	Initial cal verification 50
E3E1885-ICV1884	3E43055.D	07/25/12	19:26	04:46	Initial cal verification 50
E3E1885-ICV1885	3E43057.D	07/25/12	20:16	05:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1888-DFTPP
Lab File ID: 3E43110.D
Instrument ID: GCMS3E
Injection Date: 07/28/12
Injection Time: 08:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44920	36.5		Pass
68	Less than 2.0% of mass 69	702	0.57	(1.52) [a]	Pass
69	Mass 69 relative abundance	46073	37.4		Pass
70	Less than 2.0% of mass 69	181	0.15	(0.39) [a]	Pass
127	40.0 - 60.0% of mass 198	63948	52.0		Pass
197	Less than 1.0% of mass 198	753	0.61		Pass
198	Base peak, 100% relative abundance	123051	100.0		Pass
199	5.0 - 9.0% of mass 198	8090	6.57		Pass
275	10.0 - 30.0% of mass 198	29953	24.3		Pass
365	1.0 - 100.0% of mass 198	3150	2.56		Pass
441	Present, but less than mass 443	11499	9.34	(81.5) [b]	Pass
442	40.0 - 100.0% of mass 198	75141	61.1		Pass
443	17.0 - 23.0% of mass 442	14101	11.5	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E1888-CC1884	3E43111.D	07/28/12	08:46	00:16	Continuing cal 50
E3E1888-CC1885	3E43112.D	07/28/12	09:38	01:08	Continuing cal 50
OP58564-MB1	3E43113.D	07/28/12	10:07	01:37	Method Blank
OP58564-BS1	3E43114.D	07/28/12	10:40	02:10	Blank Spike
ZZZZZZ	3E43115.D	07/28/12	11:05	02:35	(unrelated sample)
ZZZZZZ	3E43116.D	07/28/12	11:29	02:59	(unrelated sample)
ZZZZZZ	3E43117.D	07/28/12	11:54	03:24	(unrelated sample)
ZZZZZZ	3E43118.D	07/28/12	12:20	03:50	(unrelated sample)
ZZZZZZ	3E43119.D	07/28/12	12:45	04:15	(unrelated sample)
ZZZZZZ	3E43120.D	07/28/12	13:10	04:40	(unrelated sample)
ZZZZZZ	3E43121.D	07/28/12	13:35	05:05	(unrelated sample)
ZZZZZZ	3E43122.D	07/28/12	14:00	05:30	(unrelated sample)
ZZZZZZ	3E43123.D	07/28/12	14:25	05:55	(unrelated sample)
ZZZZZZ	3E43124.D	07/28/12	14:49	06:19	(unrelated sample)
JB12195-2	3E43125.D	07/28/12	15:14	06:44	PE-2
JB12195-1	3E43126.D	07/28/12	15:39	07:09	PE-1
JB12195-3	3E43127.D	07/28/12	16:04	07:34	PE-3
JB12195-5	3E43128.D	07/28/12	16:28	07:58	PE-5
JB12195-6	3E43129.D	07/28/12	16:53	08:23	DUP-1

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1888-DFTPP
Lab File ID: 3E43110.D
Instrument ID: GCMS3E
Injection Date: 07/28/12
Injection Time: 08:30

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E43130.D	07/28/12	17:18	08:48	(unrelated sample)
ZZZZZZ	3E43131.D	07/28/12	17:42	09:12	(unrelated sample)
ZZZZZZ	3E43132.D	07/28/12	18:07	09:37	(unrelated sample)
JB12089-2A	3E43133.D	07/28/12	18:32	10:02	(used for QC only; not part of job JB12195)
OP58564-MS	3E43134.D	07/28/12	18:56	10:26	Matrix Spike
OP58564-MSD	3E43135.D	07/28/12	19:21	10:51	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1889-DFTPP
Lab File ID: 3E43136.D
Instrument ID: GCMS3E
Injection Date: 07/30/12
Injection Time: 08:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	45439	35.8		Pass
68	Less than 2.0% of mass 69	678	0.53	(1.47) [a]	Pass
69	Mass 69 relative abundance	46088	36.3		Pass
70	Less than 2.0% of mass 69	212	0.17	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	65342	51.4		Pass
197	Less than 1.0% of mass 198	679	0.53		Pass
198	Base peak, 100% relative abundance	127002	100.0		Pass
199	5.0 - 9.0% of mass 198	8717	6.86		Pass
275	10.0 - 30.0% of mass 198	31868	25.1		Pass
365	1.0 - 100.0% of mass 198	3902	3.07		Pass
441	Present, but less than mass 443	13583	10.7	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	93880	73.9		Pass
443	17.0 - 23.0% of mass 442	18061	14.2	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E1889-CC1884	3E43137.D	07/30/12	09:45	00:47	Continuing cal 25
E3E1889-CC1885	3E43138.D	07/30/12	10:09	01:11	Continuing cal 50
OP58599-MB1	3E43139.D	07/30/12	10:48	01:50	Method Blank
OP58599-BS1	3E43140.D	07/30/12	11:13	02:15	Blank Spike
ZZZZZZ	3E43141.D	07/30/12	12:52	03:54	(unrelated sample)
JB12089-2A	3E43144.D	07/30/12	13:17	04:19	(used for QC only; not part of job JB12195)
ZZZZZZ	3E43145.D	07/30/12	13:42	04:44	(unrelated sample)
OP58599-MS	3E43146.D	07/30/12	14:07	05:09	Matrix Spike
OP58599-MSD	3E43147.D	07/30/12	14:32	05:34	Matrix Spike Duplicate
JB12300-1	3E43148.D	07/30/12	14:57	05:59	(used for QC only; not part of job JB12195)
ZZZZZZ	3E43149.D	07/30/12	15:22	06:24	(unrelated sample)
ZZZZZZ	3E43150.D	07/30/12	15:47	06:49	(unrelated sample)
ZZZZZZ	3E43151.D	07/30/12	16:12	07:14	(unrelated sample)
ZZZZZZ	3E43152.D	07/30/12	16:37	07:39	(unrelated sample)
ZZZZZZ	3E43153.D	07/30/12	17:02	08:04	(unrelated sample)
JB12195-4	3E43154.D	07/30/12	17:27	08:29	PE-4
ZZZZZZ	3E43155.D	07/30/12	17:52	08:54	(unrelated sample)
ZZZZZZ	3E43157.D	07/30/12	19:27	10:29	(unrelated sample)
ZZZZZZ	3E43158.D	07/30/12	19:52	10:54	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1889-DFTPP
Lab File ID: 3E43136.D
Instrument ID: GCMS3E
Injection Date: 07/30/12
Injection Time: 08:58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E43160.D	07/30/12	20:41	11:43	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	E3E1888-CC1884	**Injection Date:**	07/28/12
Lab File ID:	3E43111.D	**Injection Time:**	08:46
Instrument ID:	GCMS3E	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	55434	3.04	258000	4.67	185976	7.31	356154	9.56	478659	13.19	493859	14.57
Upper Limit [a]	110868	3.54	516000	5.17	371952	7.81	712308	10.06	957318	13.69	987718	15.07
Lower Limit [b]	27717	2.54	129000	4.17	92988	6.81	178077	9.06	239330	12.69	246930	14.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP58564-MB1	88708	3.04	375753	4.67	264398	7.30	527475	9.55	754734	13.19	811598	14.56
OP58564-BS1	42002	3.04	197787	4.67	141251	7.30	276954	9.56	370315	13.19	376960	14.57
ZZZZZZ	56074	3.04	245050	4.67	164472	7.30	306328	9.55	422424	13.18	455340	14.56
ZZZZZZ	61424	3.04	283591	4.67	210400	7.30	411582	9.55	516241	13.19	542023	14.56
ZZZZZZ	52243	3.04	238737	4.67	175517	7.30	345054	9.55	478319	13.18	519187	14.56
ZZZZZZ	54904	3.04	253346	4.67	182410	7.30	361533	9.55	488848	13.18	515909	14.56
ZZZZZZ	48391	3.04	206122	4.67	145587	7.30	292930	9.55	423023	13.18	477453	14.56
ZZZZZZ	57608	3.04	265506	4.67	193111	7.30	381289	9.55	513594	13.18	556649	14.56
ZZZZZZ	54681	3.04	257161	4.67	191556	7.30	384029	9.55	529035	13.18	568702	14.56
ZZZZZZ	58525	3.04	278050	4.67	207213	7.30	412645	9.55	560941	13.18	584666	14.56
ZZZZZZ	65743	3.04	302103	4.67	219786	7.30	427153	9.55	583843	13.18	628540	14.56
ZZZZZZ	61399	3.04	289091	4.67	215041	7.30	410886	9.55	585075	13.18	646522	14.56
JB12195-2	58797	3.04	283806	4.67	213050	7.30	417207	9.55	534373	13.18	583007	14.56
JB12195-1	64739	3.04	309484	4.66	229993	7.30	402376	9.56	495900	13.19	542902	14.56
JB12195-3	62734	3.04	307158	4.67	232749	7.29	432436	9.55	559601	13.19	605805	14.56
JB12195-5	61405	3.04	297008	4.66	219271	7.29	398764	9.55	506131	13.18	558937	14.56
JB12195-6	65703	3.04	322714	4.66	243381	7.29	454029	9.55	569310	13.18	605335	14.56
ZZZZZZ	65047	3.04	331114	4.66	245848	7.29	460860	9.55	578105	13.18	581926	14.56
ZZZZZZ	82274	3.04	401702	4.67	263236	7.31	440105	9.57	601578	13.23	456343	14.61
ZZZZZZ	75930	3.05	370016	4.67	247609	7.31	423800	9.58	588097	13.22	488340	14.61
JB12089-2A	85040	3.05	403724	4.67	258493	7.32	440623	9.59	561540	13.25	451233	14.63
OP58564-MS [c]	77770	3.05	375076	4.68	248442	7.32	416708	9.60	553728	13.25	439135	14.63
OP58564-MSD [c]	101489	3.05	476893	4.68	307613	7.33	526466	9.62	658663	13.27	533079	14.65

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to viscosity of extract matrix

Semivolatile Internal Standard Area Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	E3E1889-CC1884	**Injection Date:**	07/30/12
Lab File ID:	3E43137.D	**Injection Time:**	09:45
Instrument ID:	GCMS3E	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	56114	3.02	228101	4.64	148869	7.27	283430	9.52	456833	13.16	539363	14.54
Upper Limit [a]	112228	3.52	456202	5.14	297738	7.77	566860	10.02	913666	13.66	1078726	15.04
Lower Limit [b]	28057	2.52	114051	4.14	74435	6.77	141715	9.02	228417	12.66	269682	14.04

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP58599-MB1	74545	3.02	284560	4.64	170838	7.27	299688	9.52	475437	13.16	585411	14.54
OP58599-BS1	73029	3.02	311735	4.64	216590	7.27	438619	9.52	673743	13.16	726006	14.54
ZZZZZZ	56015	3.02	254286	4.64	193915	7.27	391886	9.52	540429	13.17	611117	14.55
JB12089-2A	50776	3.02	259990	4.64	191132	7.27	333525	9.54	415782	13.18	413013	14.57
ZZZZZZ	53766	3.02	273452	4.64	195419	7.28	349667	9.54	476697	13.19	463981	14.57
OP58599-MS	44208	3.02	213931	4.65	165791	7.28	329718	9.54	420681	13.18	422272	14.56
OP58599-MSD	49133	3.02	243972	4.64	188860	7.27	362217	9.53	470243	13.17	464680	14.55
JB12300-1	50011	3.02	235556	4.64	184387	7.27	367163	9.53	520309	13.17	556808	14.55
ZZZZZZ	55138	3.02	265224	4.64	205563	7.27	394629	9.52	521380	13.17	521483	14.55
ZZZZZZ	51697	3.02	270153	4.64	199270	7.27	362164	9.53	482734	13.19	500958	14.58
ZZZZZZ	39163	3.02	190118	4.64	144034	7.27	284983	9.52	382689	13.17	425064	14.55
ZZZZZZ	50839	3.02	258799	4.64	200155	7.27	388448	9.53	509188	13.17	492867	14.56
ZZZZZZ	75097	3.02	364981	4.65	241722	7.29	457740	9.56	654246	13.22	503649	14.60
JB12195-4	42822	3.03	205782	4.65	149239	7.28	271879	9.54	355664	13.19	356149	14.56
ZZZZZZ	47048	3.03	229536	4.65	175503	7.28	322808	9.54	440721	13.18	407749	14.56
ZZZZZZ	54163	3.03	259399	4.65	173935	7.29	309101	9.56	424038	13.19	404375	14.58
ZZZZZZ	49108	3.03	220249	4.65	169301	7.28	354062	9.54	493955	13.18	437172	14.57
ZZZZZZ	51184	3.03	221659	4.65	170496	7.28	364031	9.54	515898	13.18	463768	14.56

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB12195-1	3E43126.D	70	77	99	53	53	76
JB12195-2	3E43125.D	72	83	101	51	48	83
JB12195-3	3E43127.D	69	78	100	51	49	77
JB12195-4	3E43154.D	63	68	82	50	50	66
JB12195-5	3E43128.D	62	69	96	54	51	89
JB12195-6	3E43129.D	60	68	78	49	47	70
OP58564-BS1	3E43114.D	92	98	90	84	76	96
OP58564-MB1	3E43113.D	77	74	110	71	64	102
OP58564-MS	3E43134.D	37	47	82	53	69	90
OP58564-MSD	3E43135.D	33	40	65	53	62	87

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	21-116%
S2 = Phenol-d5	19-117%
S3 = 2,4,6-Tribromophenol	24-136%
S4 = Nitrobenzene-d5	21-122%
S5 = 2-Fluorobiphenyl	30-117%
S6 = Terphenyl-d14	31-129%

Initial Calibration Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E3E1884-ICC1884
Lab FileID: 3E43038.D

Response Factor Report MS3E

Method : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Jul 26 08:39:17 2012
Response via : Initial Calibration

Calibration Files
2 =3e43036.D 5 =3e43039.D 25 =3e43042.D 80 =3e43041.D
100 =3e43035.D 50 =3e43038.D 1 =3e43037.D 10 =3e43040.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.551	0.589	0.534	0.538	0.531	0.539	0.545	0.625	0.557	5.98
3) Pyridine	1.519	1.445	1.418	1.552	1.503	1.471	1.360	1.601	1.484	5.16
4) N-Nitrosodim	0.943	0.931	0.893	0.976	0.945	0.893	0.846	1.022	0.931	5.85
5) 2-Fluorophen	1.355	1.346	1.284	1.522	1.491	1.328	1.198	1.473	1.375	8.14
6) Indene	2.563	2.528	2.543	2.504	2.462	2.546	2.263	2.759	2.521	5.40
7) Cumene	3.368	3.223	3.144	3.082	3.062	3.109	3.034	3.475	3.187	4.96
8) Phenol-d5	1.741	1.765	1.645	1.861	1.817	1.665	1.554	1.958	1.751	7.38
9) Phenol	1.894	1.898	1.865	2.013	1.934	1.891	1.667	2.095	1.907	6.50
10) Aniline	2.403	2.269	2.297	2.081	2.398	2.316	2.019	2.550	2.291	7.56
11) bis(2-Chloro	1.437	1.413	1.333	1.400	1.362	1.317	1.321	1.533	1.390	5.27
12) 2-Chlorophen	1.523	1.512	1.462	1.570	1.535	1.481	1.296	1.647	1.503	6.75
13) Decane	1.326	1.275	1.242	1.147	1.160	1.163	1.157	1.320	1.224	6.24
14) 1,3-Dichloro	1.735	1.670	1.552	1.628	1.612	1.567	1.549	1.809	1.640	5.68
15) 1,4-Dichloro	1.787	1.676	1.586	1.666	1.634	1.599	1.596	1.855	1.675	5.82
16) Benzyl alcoh	1.011	1.062	1.028	1.112	1.080	1.045	0.889	1.156	1.048	7.57
17) 1,2-Dichloro	1.657	1.601	1.479	1.568	1.538	1.502	1.504	1.757	1.576	5.95
18) Acetophenone	2.081	2.039	1.990	2.047	2.009	2.006	1.821	2.232	2.028	5.59
19) 2-Methylphen	1.435	1.433	1.392	1.444	1.425	1.399	1.248	1.582	1.420	6.41
20) 2,2'-oxybis(	0.548	0.539	0.511	0.536	0.523	0.512	0.509	0.597	0.534	5.45
21) 3&4-Methylph	1.530	1.537	1.524	1.594	1.560	1.543	1.336	1.734	1.545	7.03
22) n-Nitroso-di	1.109	1.066	1.006	1.024	1.003	0.975	1.005	1.155	1.043	5.95
23) Hexachloroet	0.463	0.476	0.440	0.469	0.464	0.449	0.468	0.516	0.468	4.82
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.341	0.329	0.321	0.340	0.342	0.312	0.283	0.360	0.328	7.13
26) Nitrobenzene	0.387	0.356	0.347	0.352	0.354	0.331	0.325	0.387	0.355	6.36
27) Quinoline	0.799	0.765	0.770	0.782	0.770	0.763	0.650	0.859	0.770	7.52
28) Isophorone	0.670	0.640	0.626	0.639	0.645	0.608	0.586	0.707	0.640	5.75
29) 2-Nitropheno	0.176	0.176	0.194	0.205	0.206	0.193	0.129	0.202	0.185	13.81
30) 2,4-Dimethyl	0.355	0.325	0.348	0.338	0.356	0.341	0.262	0.391	0.340	10.87
31) Benzoic acid		0.188	0.279	0.327	0.307	0.285		0.251	0.273	17.89
32) bis(2-Chloro	0.390	0.375	0.369	0.375	0.376	0.356	0.318	0.412	0.371	7.32
33) 2,4-Dichloro	0.283	0.290	0.294	0.305	0.305	0.294	0.215	0.322	0.289	11.09
34) 2,6-Dichloro	0.292	0.286	0.288	0.294	0.299	0.290	0.244	0.324	0.290	7.63
35) 1,3,5-Trichl	0.326	0.304	0.295	0.295	0.297	0.296	0.276	0.334	0.303	6.21
36) 1,2,4-Trichl	0.326	0.300	0.289	0.298	0.297	0.286	0.280	0.332	0.301	6.20
37) 1,2,3-Trichl	0.311	0.294	0.286	0.288	0.288	0.290	0.276	0.320	0.294	4.86
38) Naphthalene	1.160	1.098	1.065	1.031	1.036	1.036	1.029	1.213	1.084	6.37
39) 4-Chloroanil	0.501	0.481	0.473	0.467	0.493	0.477	0.408	0.547	0.481	8.06
40) 2,3-Dichloro	0.377	0.376	0.364	0.364	0.364	0.365	0.322	0.405	0.367	6.21
41) Caprolactam	0.204	0.171	0.171	0.181	0.177	0.168	0.146	0.186	0.176	9.34
42) Hexachlorobu	0.158	0.147	0.140	0.144	0.144	0.140	0.133	0.161	0.146	6.55
43) 4-Chloro-3-m	0.322	0.306	0.316	0.327	0.324	0.314	0.255	0.343	0.313	8.30
44) 2-Methylnaph	0.700	0.676	0.648	0.665	0.671	0.653	0.641	0.746	0.675	5.04
45) 1-Methylnaph	0.664	0.632	0.627	0.612	0.610	0.613	0.589	0.702	0.631	5.69

Initial Calibration Summary

Job Number: JB12195 **Sample:** E3E1884-ICC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43038.D
Project: 508 West 24th Street, Manhattan, NY

```
46) Dimethylnaph 0.687 0.657 0.638 0.631 0.636 0.636 0.589 0.718 0.649   6.04

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.165 0.188 0.246 0.270       0.258       0.244 0.229  18.47
49) 2,4,6-Trichl 0.321 0.312 0.329 0.340 0.345 0.327 0.246 0.363 0.323  10.82
50) 2,4,5-Trichl 0.368 0.342 0.360 0.381 0.381 0.361 0.273 0.413 0.360  11.36
51) 2-Fluorobiph 1.342 1.250 1.184 1.185 1.222 1.141 1.173 1.416 1.239   7.62
52) 2-Chloronaph 1.166 1.098 1.046 1.058 1.079 1.015 0.968 1.231 1.083   7.72
53) Biphenyl     1.536 1.435 1.378 1.318 1.345 1.335 1.277 1.590 1.402   7.88
54) 2-Nitroanili 0.283 0.298 0.322 0.335 0.335 0.312 0.202 0.349 0.304  15.30
55) Dimethylphth 1.352 1.306 1.255 1.274 1.274 1.218 1.162 1.486 1.291   7.52
56) Acenaphthyle 1.964 1.861 1.859 1.828 1.864 1.828 1.628 2.103 1.867   7.17
57) 2,6-Dinitrot 0.234 0.247 0.280 0.305 0.304 0.275 0.170 0.304 0.265  17.59
58) 3-Nitroanili 0.315 0.338 0.365 0.389 0.393 0.364 0.232 0.400 0.350  15.91
59) Acenaphthene 1.199 1.135 1.105 1.070 1.095 1.067 1.048 1.281 1.125   7.01
60) 2,4-Dinitrop       0.053 0.118 0.176 0.172 0.131       0.087 0.123  39.04
         ----- Quadratic regression -----                Coefficient =  0.9937
              Response Ratio = -0.02480 + 0.12611 *A + 0.01105 *A^2

61) 4-Nitropheno 0.116 0.121 0.151 0.166 0.161 0.151       0.159 0.146  13.65
62) Dibenzofuran 1.755 1.660 1.585 1.550 1.549 1.522 1.512 1.864 1.625   7.77
63) 2,4-Dinitrot 0.305 0.359 0.402 0.432 0.429 0.396       0.439 0.395  12.20
64) 2,3,4,6-Tetr 0.252 0.257 0.271 0.289 0.286 0.274 0.202 0.310 0.268  12.10
65) Diethylphtha 1.375 1.306 1.271 1.282 1.291 1.229 1.174 1.493 1.303   7.40
66) Fluorene     1.401 1.318 1.305 1.286 1.291 1.266 1.188 1.489 1.318   6.88
67) 4-Chlorophen 0.608 0.582 0.561 0.565 0.569 0.545 0.522 0.659 0.576   7.26
68) 4-Nitroanili 0.363 0.371 0.386 0.415 0.413 0.387 0.244 0.436 0.377  15.62

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-             0.124 0.154 0.153 0.134       0.108 0.135  14.36
71) n-Nitrosodip 0.654 0.609 0.592 0.592 0.617 0.577 0.562 0.699 0.613   7.25
72) 1,2-Diphenyl 0.811 0.768 0.756 0.745 0.765 0.713 0.675 0.868 0.763   7.67
73) 2,4,6-Tribro 0.079 0.086 0.085 0.097 0.099 0.088 0.068 0.102 0.088  12.64
74) 4-Bromopheny 0.202 0.191 0.188 0.194 0.200 0.185 0.173 0.217 0.194   6.71
75) Hexachlorobe 0.225 0.214 0.201 0.211 0.215 0.198 0.196 0.237 0.212   6.66
76) Pentachlorop 0.095 0.114 0.136 0.153 0.154 0.141       0.144 0.134  16.26
77) Phenanthrene 1.224 1.133 1.080 1.054 1.085 1.051 1.066 1.270 1.120   7.42
78) Anthracene   1.206 1.153 1.139 1.091 1.148 1.110 1.036 1.305 1.149   7.02
79) Carbazole    1.246 1.165 1.183 1.148 1.178 1.157 1.015 1.335 1.178   7.69
80) Di-n-butylph 1.384 1.320 1.328 1.376 1.418 1.319 1.126 1.529 1.350   8.44
81) Fluoranthene 1.240 1.201 1.200 1.203 1.232 1.179 1.065 1.386 1.213   7.27
82) Octadecane   0.461 0.433 0.438 0.415 0.435 0.420 0.386 0.487 0.434   6.96

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.264 1.168 1.155 1.122 1.142 1.113 1.017 1.319 1.162   8.00
85) Terphenyl-d1 0.767 0.720 0.701 0.731 0.739 0.688 0.629 0.825 0.725   7.92
86) Butylbenzylp 0.597 0.566 0.599 0.606 0.625 0.580 0.448 0.668 0.586  10.89
87) Butyl steara 0.281 0.270 0.286 0.280 0.287 0.277 0.195 0.326 0.275  13.36
88) Benzo[a]anth 1.187 1.100 1.100 1.101 1.127 1.077 1.057 1.247 1.124   5.57
89) 3,3'-Dichlor 0.475 0.457 0.458 0.463 0.464 0.445 0.378 0.519 0.457   8.55
90) Chrysene     1.188 1.086 1.033 1.011 1.019 1.020 1.038 1.212 1.076   7.47
91) bis(2-Ethylh 0.801 0.783 0.826 0.814 0.838 0.791 0.594 0.920 0.796  11.57

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.342 1.338 1.436 1.484 1.542 1.425       1.583 1.450   6.43
94) Benzo[b]fluo 1.239 1.261 1.372 1.366 1.683 1.255 0.984 1.384 1.318  14.86
95) Benzo[k]fluo 1.380 1.204 1.101 1.122 0.902 1.186 1.085 1.395 1.172  13.78
96) Benzo[a]pyre 1.194 1.130 1.209 1.187 1.246 1.184 0.950 1.355 1.182   9.66
97) Indeno[1,2,3 1.410 1.395 1.415 1.512 1.360 1.407 1.164 1.595 1.407   8.82
98) Dibenz(a,h)a 0.994 0.977 1.052 1.113 1.066 1.060 0.789 1.133 1.023  10.58
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** E3E1884-ICC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43038.D
Project: 508 West 24th Street, Manhattan, NY

```
 99) Dibenz[a,h]a 1.182 1.177 1.190 1.254 1.177 1.185 0.977 1.347 1.186   8.71
100) 7,12-Dimethy 0.650 0.580 0.615 0.615 0.673 0.617 0.464 0.692 0.613  11.45
101) Benzo[g,h,i] 1.273 1.212 1.206 1.279 1.041 1.189 1.105 1.381 1.211   8.72

 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3E1884.M         Thu Jul 26 08:42:06 2012   MS3E
```

Initial Calibration Summary

Job Number: JB12195 **Sample:** E3E1885-ICC1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43046.D
Project: 508 West 24th Street, Manhattan, NY

```
                         Response Factor Report  MS3E

  Method       : C:\MSDCHEM\1\METHODS\M3E1885.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
  Last Update  : Thu Jul 26 12:25:44 2012
  Response via : Initial Calibration

  Calibration Files
  2   =3e43050.D   5   =3e43049.D   25  =3e43047.D   80  =3e43045.D
  100 =3e43044.D   50  =3e43046.D   1   =3e43051.D   10  =3e43048.D

   Compound         2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------

102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.280 1.245 1.199 1.215 1.187 1.219 1.116 1.236 1.212   3.99

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.488 0.494 0.455 0.461 0.453 0.474 0.475 0.493 0.474   3.52
106) 2-bromonapht 0.574 0.574 0.541 0.556 0.545 0.570 0.515 0.585 0.558   4.11

107)     Phenanthrene-d10a     ----------------ISTD---------------------
108) Atrazine     0.115 0.118 0.119 0.127 0.126 0.129 0.086 0.122 0.118  11.79
109) o-terphenyl  0.603 0.604 0.571 0.580 0.567 0.596 0.515 0.592 0.579   5.04

110) I   Chrysene-d12a         ----------------ISTD---------------------
111) benzidine    0.864 0.858 0.880 0.824 0.713 0.754 0.641 0.914 0.806  11.70
112) 1-chloroocta 0.276 0.289 0.292 0.291 0.282 0.314 0.232 0.302 0.285   8.54

113) I   naphthalene-d8a       ----------------ISTD---------------------
114) hydroquinone 0.272 0.355 0.416 0.470 0.461 0.443       0.399 0.402  17.35
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3E1884.M         Thu Jul 26 12:27:06 2012   MS3E
```

7.7.2

7

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43052.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43052.D          Vial: 10
Acq On    : 25 Jul 2012   6:11 pm                    Operator: olgaa
Sample    : icv1884-50                               Inst    : MS3E
Misc      : op58353,e3e1885,                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Wed Jul 25 15:57:07 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	0.00	3.04
9	t	Phenol	1.907	1.902	0.3	137	0.00	2.77
12	t	2-Chlorophenol	1.503	1.575	-4.8	145	0.00	2.85
19	t	2-Methylphenol	1.420	1.434	-1.0	140	0.00	3.45
21	t	3&4-Methylphenol	1.545	1.555	-0.6	137	0.00	3.65
24	I	Naphthalene-d8	1.000	1.000	0.0	132	0.00	4.66
29	t	2-Nitrophenol	0.185	0.195	-5.4	133	0.00	4.19
30	t	2,4-Dimethylphenol	0.340	0.359	-5.6	139	0.00	4.34
31	t	Benzoic acid	0.273	0.271	0.7	126	0.01	4.63
33	t	2,4-Dichlorophenol	0.289	0.312	-8.0	140	0.00	4.53
34	t	2,6-Dichlorophenol	0.290	0.310	-6.9	141	0.00	4.86
43	t	4-Chloro-3-methylphenol	0.313	0.331	-5.8	139	-0.02	5.66
47	I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00	7.29
49	t	2,4,6-Trichlorophenol	0.323	0.350	-8.4	140	0.00	6.22
50	t	2,4,5-Trichlorophenol	0.360	0.389	-8.1	140	-0.01	6.28
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	87.908	12.1	102	0.00	7.50
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.146	0.153	-4.8	132	-0.01	7.74
64		2,3,4,6-Tetrachlorophenol	0.268	0.280	-4.5	133	0.00	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	9.55
70	t	4,6-Dinitro-2-methylpheno	0.135	0.129	4.4	123	-0.01	8.36
76	t	Pentachlorophenol	0.134	0.150	-11.9	134	0.00	9.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43038.D M3E1884.M Thu Jul 26 08:32:26 2012 MS3E

7.7.3

7

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43053A.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43053a.D        Vial: 11
Acq On    : 25 Jul 2012   6:36 pm                   Operator: olgaa
Sample    : icv1885-50                              Inst    : MS3E
Misc      : op58353,e3e1885,                        Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	101	0.00	7.29
105	1,2,4,5-Tetrachlorobenzen	0.474	0.429	9.5	91	0.00	6.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Thu Jul 26 12:29:57 2012 MS3E

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43053.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3e1885\3e43053.D Vial: 11
Acq On : 25 Jul 2012 6:36 pm Operator: olgaa
Sample : icv1884-50 Inst : MS3E
Misc : op58353,e3e1885, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Jul 26 08:39:17 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00	3.04
3	t	Pyridine	1.484	1.448	2.4	126	-0.01	1.11
4	t	N-Nitrosodimethylamine	0.931	0.934	-0.3	134	0.00	1.11
11	t	bis(2-Chloroethyl)ether	1.390	1.507	-8.4	147	0.00	2.82
14	t	1,3-Dichlorobenzene	1.640	1.677	-2.3	137	0.00	2.99
15	t	1,4-Dichlorobenzene	1.675	1.693	-1.1	136	0.00	3.06
16	t	Benzyl alcohol	1.048	1.107	-5.6	136	0.00	3.26
17	t	1,2-Dichlorobenzene	1.576	1.609	-2.1	137	0.00	3.27
20	t	2,2'-oxybis(1-Chloropropa	0.534	0.559	-4.7	140	0.00	3.45
22	t	n-Nitroso-di-n-propylamin	1.043	1.032	1.1	135	0.00	3.63
23	t	Hexachloroethane	0.468	0.473	-1.1	135	0.00	3.64
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	4.66
26	t	Nitrobenzene	0.355	0.374	-5.4	140	0.00	3.76
28	t	Isophorone	0.640	0.686	-7.2	140	0.00	4.09
32	t	bis(2-Chloroethoxy)methan	0.371	0.431	-16.2	151	0.00	4.45
36	t	1,2,4-Trichlorobenzene	0.301	0.315	-4.7	137	0.00	4.63
38	t	Naphthalene	1.084	1.113	-2.7	134	0.00	4.69
42	t	Hexachlorobutadiene	0.146	0.153	-4.8	136	0.00	5.00
44	t	2-Methylnaphthalene	0.675	0.643	4.7	122	0.00	5.71
47	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00	7.29
48	t	Hexachlorocyclopentadiene	0.229	0.230	-0.4	108	0.00	6.07
52	t	2-Chloronaphthalene	1.083	1.139	-5.2	136	0.00	6.42
54	t	2-Nitroaniline	0.304	0.337	-10.9	130	0.00	6.69
55	t	Dimethylphthalate	1.291	1.345	-4.2	134	0.00	7.09
56	t	Acenaphthylene	1.867	1.867	0.0	124	0.00	7.05
57	t	2,6-Dinitrotoluene	0.265	0.312	-17.7	138	0.00	7.16
58	t	3-Nitroaniline	0.350	0.334	4.6	111	0.00	7.34
59	t	Acenaphthene	1.125	1.170	-4.0	133	0.00	7.34
62	t	Dibenzofuran	1.625	1.668	-2.6	133	0.00	7.60
63	t	2,4-Dinitrotoluene	0.395	0.413	-4.6	126	0.00	7.75
65	t	Diethylphthalate	1.303	1.358	-4.2	134	-0.01	8.21
66	t	Fluorene	1.318	1.418	-7.6	136	0.00	8.13
67	t	4-Chlorophenyl-phenylethe	0.576	0.612	-6.3	136	0.00	8.20
68	t	4-Nitroaniline	0.377	0.390	-3.4	122	0.00	8.31
69	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00	9.55
71	t	n-Nitrosodiphenylamine	0.613	0.626	-2.1	130	0.00	8.42
72	t	1,2-Diphenylhydrazine	0.763	0.852	-11.7	143	0.00	8.44
74	t	4-Bromophenyl-phenylether	0.194	0.208	-7.2	135	0.00	8.94
75	t	Hexachlorobenzene	0.212	0.222	-4.7	134	0.00	9.11

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43053.D
Project: 508 West 24th Street, Manhattan, NY

77	t	Phenanthrene	1.120	1.164	-3.9	133	0.00	9.58
78	t	Anthracene	1.149	1.223	-6.4	132	0.00	9.65
79	t	Carbazole	1.178	1.202	-2.0	125	0.00	9.97
80	t	Di-n-butylphthalate	1.350	1.458	-8.0	133	0.00	10.78
81	t	Fluoranthene	1.213	1.242	-2.4	126	0.00	11.42
83	I	Chrysene-d12	1.000	1.000	0.0	110	0.00	13.18
84	t	Pyrene	1.162	1.273	-9.6	125	0.00	11.70
86	t	Butylbenzylphthalate	0.586	0.671	-14.5	127	0.00	12.73
88	t	Benzo[a]anthracene	1.124	1.196	-6.4	122	0.00	13.17
89	t	3,3'-Dichlorobenzidine	0.457	0.356	22.1	88	0.00	13.21
90	t	Chrysene	1.076	1.164	-8.2	125	0.00	13.21
91	t	bis(2-Ethylhexyl)phthalat	0.796	0.923	-16.0	128	0.00	13.44
92	I	Perylene-d12	1.000	1.000	0.0	101	0.00	14.56
93	t	Di-n-octylphthalate	1.450	1.768	-21.9	125	0.00	14.04
94	t	Benzo[b]fluoranthene	1.318	1.512	-14.7	122	0.00	14.24
95	t	Benzo[k]fluoranthene	1.172	1.204	-2.7	102	0.00	14.26
96	t	Benzo[a]pyrene	1.182	1.287	-8.9	110	0.00	14.50
97	t	Indeno[1,2,3-cd]pyrene	1.407	1.486	-5.6	107	0.00	15.39
99	t	Dibenz[a,h]anthracene	1.186	1.230	-3.7	105	0.00	15.40
101	t	Benzo[g,h,i]perylene	1.211	1.245	-2.8	106	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43038.D M3E1884.M Thu Jul 26 08:39:33 2012 MS3E

7.7.5

7

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43054.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43054.D          Vial: 12
Acq On    : 25 Jul 2012   7:01 pm                    Operator: olgaa
Sample    : icv1884-50                               Inst    : MS3E
Misc      : op58353,e3e1885,                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 08:39:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	3.04
2	t	1,4-Dioxane	0.557	0.546	2.0	117	-0.02	0.96
6	t	Indene	2.521	2.758	-9.4	125	0.00	3.36
7	t	Cumene	3.187	3.424	-7.4	127	0.00	2.28
13	t	Decane	1.224	1.331	-8.7	132	0.00	2.94
18	t	Acetophenone	2.028	2.215	-9.2	128	0.00	3.57
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	4.66
27	t	Quinoline	0.770	0.830	-7.8	124	-0.01	5.18
40	t	2,3-Dichloroaniline	0.367	0.384	-4.6	120	0.00	6.21
41	t	Caprolactam	0.176	0.183	-4.0	124	-0.04	5.32
45	t	1-Methylnaphthalene	0.631	0.690	-9.4	128	0.00	5.86
46	t	Dimethylnaphthalene	0.649	0.723	-11.4	130	0.00	6.67
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.29
53	t	Biphenyl	1.402	1.564	-11.6	132	0.00	6.45
69	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	9.55
82	t	Octadecane	0.434	0.504	-16.1	136	0.00	9.69
92	I	Perylene-d12	1.000	1.000	0.0	97	0.00	14.55
100	t	7,12-Dimethylbenz(a)anthr	0.613	0.614	-0.2	96	-0.01	14.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43038.D M3E1884.M Thu Jul 26 08:43:15 2012 MS3E

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43054A.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43054a.D        Vial: 12
Acq On    : 25 Jul 2012   7:01 pm                   Operator: olgaa
Sample    : icv1885-50                              Inst    : MS3E
Misc      : op58353,e3e1885,                        Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	93	0.00	3.04
103	Benzaldehyde	1.212	1.150	5.1	88	0.00	2.59
107	Phenanthrene-d10a	1.000	1.000	0.0	95	0.00	9.55
108	Atrazine	0.118	0.133	-12.7	98	0.00	9.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Thu Jul 26 12:31:46 2012 MS3E

7.2.7

7

Initial Calibration Verification

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E3E1885-ICV1884
Lab FileID: 3E43055.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43055.D          Vial: 13
Acq On    : 25 Jul 2012   7:26 pm                     Operator: olgaa
Sample    : icv1884-50                                Inst    : MS3E
Misc      : op58353,e3e1885,                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 08:39:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	137	0.00	3.04
5	S	2-Fluorophenol	1.375	1.537	-11.8	158	0.00	1.90
8	S	Phenol-d5	1.751	1.901	-8.6	156	0.00	2.76
24	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00	4.66
25	S	Nitrobenzene-d5	0.328	0.349	-6.4	151	0.00	3.74
47	I	Acenaphthene-d10	1.000	1.000	0.0	135	0.00	7.29
51	S	2-Fluorobiphenyl	1.239	1.249	-0.8	147	0.00	6.34
69	I	Phenanthrene-d10	1.000	1.000	0.0	137	0.00	9.55
73	S	2,4,6-Tribromophenol	0.088	0.091	-3.4	142	0.00	8.54
83	I	Chrysene-d12	1.000	1.000	0.0	130	0.00	13.18
85	S	Terphenyl-d14	0.725	0.872	-20.3	165	0.00	12.03

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3e43038.D  M3E1884.M        Thu Jul 26 08:46:08 2012   MS3E
```

7.7.8

7

Initial Calibration Verification

Job Number: JB12195 **Sample:** E3E1885-ICV1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43057.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1885\3e43057.D          Vial: 15
Acq On    : 25 Jul 2012   8:16 pm                    Operator: olgaa
Sample    : icv1885-50                               Inst    : MS3E
Misc      : op58353,e3e1885,                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
110 I	Chrysene-d12a	1.000	1.000	0.0	81	0.00	13.17
111 T	benzidine	0.806	0.938	-16.4	101	0.00	11.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Thu Jul 26 12:33:12 2012 MS3E

7.7.9

7

Initial Calibration Verification

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E3E1886-ICV1884
Lab FileID: 3E43061.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1886\3e43061.D          Vial: 4
Acq On    : 26 Jul 2012   9:57 am                    Operator: olgaa
Sample    : icv1884-50                               Inst    : MS3E
Misc      : op58353,e3e1886,                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	3.04
10		Aniline	2.291	2.295	-0.2	94	0.00	2.74
24	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00	4.66
39	t	4-Chloroaniline	0.481	0.468	2.7	94	0.00	4.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Thu Jul 26 12:34:55 2012 MS3E

7.7.10

7

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1888-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43111.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3e1888\3e43111.D Vial: 2
Acq On : 28 Jul 2012 8:46 am Operator: kristis
Sample : cc1884-50 Inst : MS3E
Misc : op58353,e3e1888,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00	3.04
2	t	1,4-Dioxane	0.557	0.521	6.5	66	0.00	0.97
3	t	Pyridine	1.484	1.476	0.5	68	0.00	1.12
4	t	N-Nitrosodimethylamine	0.931	0.949	-1.9	72	0.00	1.11
5	S	2-Fluorophenol	1.375	1.358	1.2	70	0.00	1.90
6	t	Indene	2.521	2.745	-8.9	73	0.00	3.37
7	t	Cumene	3.187	3.202	-0.5	70	0.00	2.28
8	S	Phenol-d5	1.751	1.864	-6.5	76	0.02	2.78
9	t	Phenol	1.907	2.090	-9.6	75	0.01	2.79
10		Aniline	2.291	2.498	-9.0	73	0.00	2.74
11	t	bis(2-Chloroethyl)ether	1.390	1.445	-4.0	75	0.00	2.82
12	t	2-Chlorophenol	1.503	1.598	-6.3	73	0.00	2.86
13	t	Decane	1.224	1.350	-10.3	79	0.00	2.94
14	t	1,3-Dichlorobenzene	1.640	1.621	1.2	70	0.00	3.00
15	t	1,4-Dichlorobenzene	1.675	1.676	-0.1	71	0.00	3.06
16	t	Benzyl alcohol	1.048	1.209	-15.4	79	0.00	3.27
17	t	1,2-Dichlorobenzene	1.576	1.583	-0.4	72	0.00	3.27
18	t	Acetophenone	2.028	2.312	-14.0	79	0.00	3.57
19	t	2-Methylphenol	1.420	1.593	-12.2	78	0.01	3.47
20	t	2,2'-oxybis(1-Chloropropa	0.534	0.574	-7.5	76	0.00	3.46
21	t	3&4-Methylphenol	1.545	1.772	-14.7	78	0.01	3.66
22	t	n-Nitroso-di-n-propylamin	1.043	1.222	-17.2	85	0.00	3.63
23	t	Hexachloroethane	0.468	0.486	-3.8	74	0.00	3.64
24	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00	4.67
25	S	Nitrobenzene-d5	0.328	0.341	-4.0	82	0.00	3.75
26	t	Nitrobenzene	0.355	0.356	-0.3	80	0.00	3.77
27	t	Quinoline	0.770	0.903	-17.3	89	0.00	5.20
28	t	Isophorone	0.640	0.705	-10.2	87	0.00	4.10
29	t	2-Nitrophenol	0.185	0.219	-18.4	85	0.00	4.20
30	t	2,4-Dimethylphenol	0.340	0.368	-8.2	81	0.01	4.35
31	t	Benzoic acid	0.273	0.314	-15.0	83	-0.02	4.59
32	t	bis(2-Chloroethoxy)methan	0.371	0.384	-3.5	81	0.00	4.46
33	t	2,4-Dichlorophenol	0.289	0.324	-12.1	82	0.02	4.56
34	t	2,6-Dichlorophenol	0.290	0.319	-10.0	82	0.01	4.87
35		1,3,5-Trichlorobenzene	0.303	0.305	-0.7	77	0.00	4.21
36	t	1,2,4-Trichlorobenzene	0.301	0.297	1.3	78	0.01	4.64
37		1,2,3-Trichlorobenzene	0.294	0.305	-3.7	79	0.00	4.97
38	t	Naphthalene	1.084	1.099	-1.4	79	0.00	4.70
39	t	4-Chloroaniline	0.481	0.525	-9.1	82	0.00	4.87
40	t	2,3-Dichloroaniline	0.367	0.433	-18.0	89	0.00	6.21
41	t	Caprolactam	0.176	0.234	-33.0#	104	0.00	5.36

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1888-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43111.D
Project: 508 West 24th Street, Manhattan, NY

42	t	Hexachlorobutadiene	0.146	0.145	0.7	78	0.00	5.01
43	t	4-Chloro-3-methylphenol	0.313	0.374	-19.5	89	0.02	5.70
44	t	2-Methylnaphthalene	0.675	0.735	-8.9	84	0.00	5.72
45	t	1-Methylnaphthalene	0.631	0.680	-7.8	83	0.00	5.87
46	t	Dimethylnaphthalene	0.649	0.746	-14.9	88	0.00	6.68
47	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00	7.31
48	t	Hexachlorocyclopentadiene	0.229	0.226	1.3	75	0.00	6.08
49	t	2,4,6-Trichlorophenol	0.323	0.357	-10.5	94	0.01	6.24
50	t	2,4,5-Trichlorophenol	0.360	0.391	-8.6	93	0.02	6.31
51	S	2-Fluorobiphenyl	1.239	1.152	7.0	87	0.00	6.35
52	t	2-Chloronaphthalene	1.083	1.046	3.4	88	0.01	6.43
53	t	Biphenyl	1.402	1.359	3.1	87	0.00	6.46
54	t	2-Nitroaniline	0.304	0.369	-21.4#	101	0.01	6.70
55	t	Dimethylphthalate	1.291	1.368	-6.0	96	0.00	7.09
56	t	Acenaphthylene	1.867	1.938	-3.8	91	0.01	7.06
57	t	2,6-Dinitrotoluene	0.265	0.327	-23.4#	102	0.00	7.17
58	t	3-Nitroaniline	0.350	0.424	-21.1#	100	0.00	7.35
59	t	Acenaphthene	1.125	1.145	-1.8	92	0.00	7.35
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	126.123	-26.1#	126	0.03	7.54
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.146	0.172	-17.8	98	0.04	7.79
62	t	Dibenzofuran	1.625	1.669	-2.7	94	0.00	7.60
63	t	2,4-Dinitrotoluene	0.395	0.480	-21.5#	104	0.02	7.77
64		2,3,4,6-Tetrachlorophenol	0.268	0.312	-16.4	98	0.02	7.93
65	t	Diethylphthalate	1.303	1.455	-11.7	102	0.00	8.21
66	t	Fluorene	1.318	1.428	-8.3	97	0.00	8.13
67	t	4-Chlorophenyl-phenylethe	0.576	0.618	-7.3	97	0.00	8.21
68	t	4-Nitroaniline	0.377	0.469	-24.4#	104	0.00	8.31
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00	9.56
70	t	4,6-Dinitro-2-methylpheno	0.135	0.180	-33.3#	135	0.03	8.40
71	t	n-Nitrosodiphenylamine	0.613	0.590	3.8	102	0.00	8.42
72	t	1,2-Diphenylhydrazine	0.763	0.733	3.9	103	0.00	8.44
73	S	2,4,6-Tribromophenol	0.088	0.093	-5.7	106	0.01	8.55
74	t	4-Bromophenyl-phenylether	0.194	0.189	2.6	102	0.00	8.95
75	t	Hexachlorobenzene	0.212	0.207	2.4	104	0.01	9.12
76	t	Pentachlorophenol	0.134	0.145	-8.2	103	0.02	9.44
77	t	Phenanthrene	1.120	1.125	-0.4	107	0.01	9.59
78	t	Anthracene	1.149	1.167	-1.6	105	0.01	9.66
79	t	Carbazole	1.178	1.264	-7.3	109	0.01	9.98
80	t	Di-n-butylphthalate	1.350	1.493	-10.6	113	0.00	10.79
81	t	Fluoranthene	1.213	1.373	-13.2	117	0.02	11.43
82	t	Octadecane	0.434	0.437	-0.7	104	0.00	9.69
83	I	Chrysene-d12	1.000	1.000	0.0	121	0.01	13.19
84	t	Pyrene	1.162	1.084	6.7	118	0.01	11.71
85	S	Terphenyl-d14	0.725	0.667	8.0	117	0.01	12.04
86	t	Butylbenzylphthalate	0.586	0.594	-1.4	124	0.00	12.73
87		Butyl stearate	0.275	0.290	-5.5	127	0.00	12.85
88	t	Benzo[a]anthracene	1.124	1.117	0.6	125	0.01	13.18
89	t	3,3'-Dichlorobenzidine	0.457	0.479	-4.8	130	0.00	13.22
90	t	Chrysene	1.076	1.055	2.0	125	0.01	13.22
91	t	bis(2-Ethylhexyl)phthalat	0.796	0.816	-2.5	125	0.00	13.44
92	I	Perylene-d12	1.000	1.000	0.0	125	0.01	14.57
93	t	Di-n-octylphthalate	1.450	1.462	-0.8	128	0.00	14.04

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1888-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43111.D
Project: 508 West 24th Street, Manhattan, NY

94	t	Benzo[b]fluoranthene	1.318	1.282	2.7	128	0.01	14.25
95	t	Benzo[k]fluoranthene	1.172	1.267	-8.1	133	0.02	14.27
96	t	Benzo[a]pyrene	1.182	1.227	-3.8	129	0.01	14.52
97	t	Indeno[1,2,3-cd]pyrene	1.407	1.532	-8.9	136	0.01	15.40
98	t	Dibenz(a,h)acridine	1.023	1.154	-12.8	136	0.01	15.25
99	t	Dibenz[a,h]anthracene	1.186	1.291	-8.9	136	0.01	15.42
100	t	7,12-Dimethylbenz(a)anthr	0.613	0.647	-5.5	131	0.01	14.27
101	t	Benzo[g,h,i]perylene	1.211	1.279	-5.6	134	0.01	15.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Mon Jul 30 14:08:33 2012 MS3E

7.7.11

7

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1888-CC1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43112.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1888\3e43112.D          Vial: 3
Acq On    : 28 Jul 2012   9:38 am                    Operator: kristis
Sample    : cc1885-50                                Inst    : MS3E
Misc      : op58353,e3e1888,1000,,,1,1               Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	73	0.00	3.04
103	Benzaldehyde	1.212	1.323	-9.2	80	0.00	2.59
104	Acenaphthene-d10a	1.000	1.000	0.0	87	0.00	7.30
105	1,2,4,5-Tetrachlorobenzen	0.474	0.464	2.1	85	0.01	6.04
106	Phenanthrene-d10a	1.000	1.000	0.0	103	0.01	9.56
107	Atrazine	0.118	0.147	-24.6#	118	0.00	9.39
108 I	Chrysene-d12a	1.000	1.000	0.0	143	0.01	13.19
109 T	benzidine	0.806	0.756	6.2	144	0.00	11.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Mon Jul 30 14:10:09 2012 MS3E

7.7.12

7

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1889-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43137.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3e1889\3e43137.D Vial: 2
Acq On : 30 Jul 2012 9:45 am Operator: olgaa
Sample : cc1884-25 Inst : MS3E
Misc : op58564,e3e1889, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	-0.03	3.02
2	t	1,4-Dioxane	0.557	0.602	-8.1	77	-0.02	0.96
3	t	Pyridine	1.484	1.563	-5.3	75	-0.01	1.11
4	t	N-Nitrosodimethylamine	0.931	0.950	-2.0	73	-0.02	1.09
5	S	2-Fluorophenol	1.375	1.319	4.1	70	-0.02	1.88
6	t	Indene	2.521	2.578	-2.3	69	-0.03	3.34
7	t	Cumene	3.187	3.428	-7.6	75	-0.02	2.26
8	S	Phenol-d5	1.751	1.602	8.5	67	-0.02	2.75
9	t	Phenol	1.907	1.818	4.7	67	-0.02	2.76
10		Aniline	2.291	2.249	1.8	67	-0.03	2.72
11	t	bis(2-Chloroethyl)ether	1.390	1.340	3.6	69	-0.03	2.80
12	t	2-Chlorophenol	1.503	1.476	1.8	69	-0.02	2.83
13	t	Decane	1.224	1.688	-37.9#	93	-0.03	2.91
14	t	1,3-Dichlorobenzene	1.640	1.648	-0.5	73	-0.03	2.97
15	t	1,4-Dichlorobenzene	1.675	1.656	1.1	72	-0.03	3.03
16	t	Benzyl alcohol	1.048	1.023	2.4	68	-0.03	3.23
17	t	1,2-Dichlorobenzene	1.576	1.524	3.3	71	-0.03	3.25
18	t	Acetophenone	2.028	1.974	2.7	68	-0.03	3.54
19	t	2-Methylphenol	1.420	1.337	5.8	66	-0.02	3.44
20	t	2,2'-oxybis(1-Chloropropa	0.534	0.514	3.7	69	-0.03	3.43
21	t	3&4-Methylphenol	1.545	1.432	7.3	64	-0.02	3.63
22	t	n-Nitroso-di-n-propylamin	1.043	1.087	-4.2	74	-0.03	3.60
23	t	Hexachloroethane	0.468	0.504	-7.7	78	-0.03	3.61
24	I	Naphthalene-d8	1.000	1.000	0.0	67	-0.03	4.64
25	S	Nitrobenzene-d5	0.328	0.346	-5.5	72	-0.03	3.72
26	t	Nitrobenzene	0.355	0.363	-2.3	70	-0.03	3.74
27	t	Quinoline	0.770	0.813	-5.6	71	-0.03	5.17
28	t	Isophorone	0.640	0.669	-4.5	72	-0.03	4.06
29	t	2-Nitrophenol	0.185	0.205	-10.8	71	-0.03	4.17
30	t	2,4-Dimethylphenol	0.340	0.341	-0.3	66	-0.02	4.32
31	t	Benzoic acid	0.273	0.336	-23.1#	81	-0.09	4.52
32	t	bis(2-Chloroethoxy)methan	0.371	0.366	1.3	66	-0.03	4.43
33	t	2,4-Dichlorophenol	0.289	0.291	-0.7	66	-0.02	4.52
34	t	2,6-Dichlorophenol	0.290	0.297	-2.4	69	-0.03	4.83
35		1,3,5-Trichlorobenzene	0.303	0.316	-4.3	72	-0.03	4.18
36	t	1,2,4-Trichlorobenzene	0.301	0.295	2.0	68	-0.02	4.60
37		1,2,3-Trichlorobenzene	0.294	0.304	-3.4	71	-0.03	4.94
38	t	Naphthalene	1.084	1.107	-2.1	70	-0.03	4.66
39	t	4-Chloroaniline	0.481	0.488	-1.5	69	-0.03	4.83
40	t	2,3-Dichloroaniline	0.367	0.387	-5.4	71	-0.03	6.18
41	t	Caprolactam	0.176	0.212	-20.5#	83	-0.07	5.28

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1889-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43137.D
Project: 508 West 24th Street, Manhattan, NY

42	t	Hexachlorobutadiene	0.146	0.151	-3.4	72	-0.03	4.97
43	t	4-Chloro-3-methylphenol	0.313	0.330	-5.4	70	-0.03	5.65
44	t	2-Methylnaphthalene	0.675	0.683	-1.2	71	-0.03	5.68
45	t	1-Methylnaphthalene	0.631	0.638	-1.1	68	-0.03	5.83
46	t	Dimethylnaphthalene	0.649	0.667	-2.8	70	-0.03	6.64
47	I	Acenaphthene-d10	1.000	1.000	0.0	71	-0.03	7.27
48	t	Hexachlorocyclopentadiene	0.229	0.220	3.9	63	-0.03	6.05
49	t	2,4,6-Trichlorophenol	0.323	0.347	-7.4	74	-0.03	6.20
50	t	2,4,5-Trichlorophenol	0.360	0.367	-1.9	72	-0.02	6.27
51	S	2-Fluorobiphenyl	1.239	1.154	6.9	69	-0.03	6.32
52	t	2-Chloronaphthalene	1.083	1.031	4.8	70	-0.03	6.40
53	t	Biphenyl	1.402	1.381	1.5	71	-0.03	6.43
54	t	2-Nitroaniline	0.304	0.374	-23.0#	82	-0.03	6.66
55	t	Dimethylphthalate	1.291	1.335	-3.4	75	-0.03	7.06
56	t	Acenaphthylene	1.867	1.893	-1.4	72	-0.03	7.02
57	t	2,6-Dinitrotoluene	0.265	0.299	-12.8	75	-0.03	7.13
58	t	3-Nitroaniline	0.350	0.410	-17.1	79	-0.03	7.32
59	t	Acenaphthene	1.125	1.140	-1.3	73	-0.03	7.32
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	68.562	-37.1#	107	-0.02	7.49
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.146	0.173	-18.5	81	0.00	7.74
62	t	Dibenzofuran	1.625	1.661	-2.2	74	-0.03	7.57
63	t	2,4-Dinitrotoluene	0.395	0.445	-12.7	78	-0.02	7.73
64		2,3,4,6-Tetrachlorophenol	0.268	0.299	-11.6	78	-0.02	7.89
65	t	Diethylphthalate	1.303	1.434	-10.1	80	-0.04	8.18
66	t	Fluorene	1.318	1.371	-4.0	74	-0.03	8.10
67	t	4-Chlorophenyl-phenylethe	0.576	0.606	-5.2	76	-0.03	8.17
68	t	4-Nitroaniline	0.377	0.463	-22.8#	85	-0.04	8.26
69	I	Phenanthrene-d10	1.000	1.000	0.0	81	-0.03	9.52
70	t	4,6-Dinitro-2-methylpheno	0.135	0.157	-16.3	103	-0.02	8.35
71	t	n-Nitrosodiphenylamine	0.613	0.573	6.5	79	-0.03	8.39
72	t	1,2-Diphenylhydrazine	0.763	0.754	1.2	81	-0.03	8.41
73	S	2,4,6-Tribromophenol	0.088	0.089	-1.1	85	-0.03	8.51
74	t	4-Bromophenyl-phenylether	0.194	0.182	6.2	79	-0.03	8.91
75	t	Hexachlorobenzene	0.212	0.204	3.8	82	-0.03	9.08
76	t	Pentachlorophenol	0.134	0.139	-3.7	83	-0.03	9.40
77	t	Phenanthrene	1.120	1.124	-0.4	85	-0.03	9.55
78	t	Anthracene	1.149	1.169	-1.7	83	-0.03	9.62
79	t	Carbazole	1.178	1.288	-9.3	89	-0.03	9.95
80	t	Di-n-butylphthalate	1.350	1.476	-9.3	90	-0.03	10.75
81	t	Fluoranthene	1.213	1.411	-16.3	96	-0.02	11.39
82	t	Octadecane	0.434	0.445	-2.5	83	-0.03	9.65
83	I	Chrysene-d12	1.000	1.000	0.0	121	-0.02	13.16
84	t	Pyrene	1.162	0.979	15.7	103	-0.02	11.68
85	S	Terphenyl-d14	0.725	0.597	17.7	103	-0.02	12.01
86	t	Butylbenzylphthalate	0.586	0.537	8.4	108	-0.03	12.71
87		Butyl stearate	0.275	0.258	6.2	109	-0.02	12.83
88	t	Benzo[a]anthracene	1.124	1.102	2.0	121	-0.02	13.15
89	t	3,3'-Dichlorobenzidine	0.457	0.493	-7.9	130	-0.02	13.19
90	t	Chrysene	1.076	1.069	0.7	125	-0.02	13.19
91	t	bis(2-Ethylhexyl)phthalat	0.796	0.742	6.8	109	-0.03	13.41
92	I	Perylene-d12	1.000	1.000	0.0	142	-0.02	14.54
93	t	Di-n-octylphthalate	1.450	1.241	14.4	122	-0.02	14.02

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1889-CC1884
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43137.D
Project: 508 West 24th Street, Manhattan, NY

94	t	Benzo[b]fluoranthene	1.318	1.229	6.8	127	-0.02	14.22
95	t	Benzo[k]fluoranthene	1.172	1.195	-2.0	154	-0.02	14.24
96	t	Benzo[a]pyrene	1.182	1.170	1.0	137	-0.02	14.49
97	t	Indeno[1,2,3-cd]pyrene	1.407	1.578	-12.2	158	-0.02	15.37
98	t	Dibenz(a,h)acridine	1.023	1.150	-12.4	155	-0.02	15.22
99	t	Dibenz[a,h]anthracene	1.186	1.317	-11.0	157	-0.02	15.39
100	t	7,12-Dimethylbenz(a)anthr	0.613	0.579	5.5	133	-0.03	14.24
101	t	Benzo[g,h,i]perylene	1.211	1.347	-11.2	158	-0.03	15.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43047.D M3E1884.M Tue Jul 31 15:17:40 2012 MS3E

7.7.13

7

Continuing Calibration Summary

Job Number: JB12195 **Sample:** E3E1889-CC1885
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 3E43138.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3e1889\3e43138.D          Vial: 3
Acq On    : 30 Jul 2012  10:09 am                     Operator: olgaa
Sample    : cc1885-50                                 Inst    : MS3E
Misc      : op58564,e3e1889,                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3E1884.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jul 26 12:27:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	62	-0.03	3.02
103	Benzaldehyde	1.212	1.314	-8.4	67	-0.02	2.57
104	Acenaphthene-d10a	1.000	1.000	0.0	70	-0.03	7.27
105	1,2,4,5-Tetrachlorobenzen	0.474	0.475	-0.2	70	-0.03	6.00
106	Phenanthrene-d10a	1.000	1.000	0.0	86	-0.03	9.52
107	Atrazine	0.118	0.147	-24.6#	99	-0.03	9.35
108 I	Chrysene-d12a	1.000	1.000	0.0	126	-0.02	13.16
109 T	benzidine	0.806	0.774	4.0	129	-0.03	11.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3e43046.D M3E1884.M Tue Jul 31 15:18:50 2012 MS3E

7.7.14

7

New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB12195
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: JB12195-1 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: PE-1

Wet Weight (Total)	34.38	g
Tare Weight	28.52	g
Dry Weight (Total)	33.85	g
Solids, Percent	91	%

Sample: JB12195-2 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: PE-2

Wet Weight (Total)	25.57	g
Tare Weight	19.38	g
Dry Weight (Total)	25.08	g
Solids, Percent	92.1	%

Sample: JB12195-3 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: PE-3

Wet Weight (Total)	25.56	g
Tare Weight	18.04	g
Dry Weight (Total)	25.04	g
Solids, Percent	93.1	%

Sample: JB12195-4 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: PE-4

Wet Weight (Total)	25.5	g
Tare Weight	18.25	g
Dry Weight (Total)	24.74	g
Solids, Percent	89.5	%

Sample: JB12195-5 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: PE-5

Wet Weight (Total)	26.49	g
Tare Weight	18.04	g
Dry Weight (Total)	25.78	g
Solids, Percent	91.6	%

Sample: JB12195-6 **Analyzed:** 06-AUG-12 by KP **Method:** SM18 2540G
ClientID: DUP-1

Wet Weight (Total)	30.15	g
Tare Weight	23.9	g
Dry Weight (Total)	29.51	g
Solids, Percent	89.8	%

New Jersey
ACCUTEST LABORATORIES

04/22/14

Technical Report for

Langan Engineering & Environmental

508 West 24th Street, Manhattan, NY

100242701

Accutest Job Number: JB25553

Sampling Date: 01/03/13

Report to:

Langan Engineering & Environmental

aforsburg@Langan.com

ATTN: Amanda Forsburg

Total number of pages in report: **81**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest LabLink@791086 17:14 22-Apr-2014

Sample Summary

Langan Engineering & Environmental

Job No: JB25553

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB25553-1	01/03/13	09:30	LD	01/04/13	SO	Soil	056/PE-6
JB25553-2	01/03/13	09:32	LD	01/04/13	SO	Soil	057/PE-7
JB25553-3	01/03/13	09:35	LD	01/04/13	SO	Soil	058/PE-8
JB25553-4	01/03/13	09:40	LD	01/04/13	SO	Soil	059/PE-9
JB25553-5	01/03/13	09:42	LD	01/04/13	SO	Soil	060/PE-10
JB25553-6	01/03/13	00:00	LD	01/04/13	SO	Soil	061/DUP
JB25553-8	01/03/13	09:45	LD	01/04/13	AQ	Trip Blank Soil	TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JB25553
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 01/03/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB25553-1	**056/PE-6**					
Acetone		6.4 J	9.8	1.7	ug/kg	SW846 8260B
Methylene chloride		5.5	4.9	1.2	ug/kg	SW846 8260B
Total TIC, Volatile		282.3 J			ug/kg	
bis(2-Ethylhexyl)phthalate		62.6 J	67	30	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		11120 J			ug/kg	
Aluminum		10200	110		mg/kg	SW846 6010C
Arsenic		2.7	2.3		mg/kg	SW846 6010C
Barium		56.0	23		mg/kg	SW846 6010C
Beryllium		0.57	0.23		mg/kg	SW846 6010C
Calcium		1380	570		mg/kg	SW846 6010C
Chromium		25.9	1.1		mg/kg	SW846 6010C
Cobalt		7.4	5.7		mg/kg	SW846 6010C
Copper		18.0	2.9		mg/kg	SW846 6010C
Iron		15600	230		mg/kg	SW846 6010C
Lead		9.1	2.3		mg/kg	SW846 6010C
Magnesium		3420	570		mg/kg	SW846 6010C
Manganese		451	1.7		mg/kg	SW846 6010C
Nickel		30.4	4.6		mg/kg	SW846 6010C
Potassium		2270	1100		mg/kg	SW846 6010C
Vanadium		28.5	5.7		mg/kg	SW846 6010C
Zinc		25.0	2.3		mg/kg	SW846 6010C
JB25553-2	**057/PE-7**					
Total TIC, Volatile		324.4 J			ug/kg	
Di-n-octyl phthalate		113	72	18	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		113	72	32	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		5630 J			ug/kg	
Aluminum		9070	110		mg/kg	SW846 6010C
Barium		51.0	23		mg/kg	SW846 6010C
Beryllium		0.58	0.23		mg/kg	SW846 6010C
Calcium		1240	570		mg/kg	SW846 6010C
Chromium		16.7	1.1		mg/kg	SW846 6010C
Copper		14.6	2.8		mg/kg	SW846 6010C
Iron		12100	230		mg/kg	SW846 6010C
Lead		10.6	2.3		mg/kg	SW846 6010C
Magnesium		2350	570		mg/kg	SW846 6010C
Manganese		348	1.7		mg/kg	SW846 6010C
Nickel		15.5	4.5		mg/kg	SW846 6010C
Potassium		1370	1100		mg/kg	SW846 6010C
Vanadium		17.4	5.7		mg/kg	SW846 6010C
Zinc		24.8	2.3		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB25553
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 01/03/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB25553-3	**058/PE-8**					
Di-n-octyl phthalate		91.3	66	16	ug/kg	SW846 8270D
Dimethyl phthalate		48.4 J	66	12	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		46.1 J	66	29	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		130 J			ug/kg	
Aluminum		9450	110		mg/kg	SW846 6010C
Arsenic		2.9	2.2		mg/kg	SW846 6010C
Barium		55.8	22		mg/kg	SW846 6010C
Beryllium		0.98	0.22		mg/kg	SW846 6010C
Calcium		4560	550		mg/kg	SW846 6010C
Chromium		34.1	1.1		mg/kg	SW846 6010C
Cobalt		6.1	5.5		mg/kg	SW846 6010C
Copper		21.4	2.8		mg/kg	SW846 6010C
Iron		17000	220		mg/kg	SW846 6010C
Lead		13.4	2.2		mg/kg	SW846 6010C
Magnesium		4220	550		mg/kg	SW846 6010C
Manganese		326	1.7		mg/kg	SW846 6010C
Nickel		41.5	4.4		mg/kg	SW846 6010C
Potassium		1640	1100		mg/kg	SW846 6010C
Vanadium		27.6	5.5		mg/kg	SW846 6010C
Zinc		32.0	2.2		mg/kg	SW846 6010C
JB25553-4	**059/PE-9**					
Methylene chloride		4.6 J	4.7	1.2	ug/kg	SW846 8260B
Total TIC, Volatile		237.1 J			ug/kg	
Di-n-octyl phthalate		80.8	59	14	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		43.7 J	59	26	ug/kg	SW846 8270D
Pyrene		15.8 J	29	11	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		5080 J			ug/kg	
Aluminum		9230	110		mg/kg	SW846 6010C
Arsenic		2.5	2.2		mg/kg	SW846 6010C
Barium		53.1	22		mg/kg	SW846 6010C
Beryllium		0.50	0.22		mg/kg	SW846 6010C
Calcium		1610	560		mg/kg	SW846 6010C
Chromium		21.3	1.1		mg/kg	SW846 6010C
Copper		17.7	2.8		mg/kg	SW846 6010C
Iron		14100	220		mg/kg	SW846 6010C
Lead		8.2	2.2		mg/kg	SW846 6010C
Magnesium		2780	560		mg/kg	SW846 6010C
Manganese		269	1.7		mg/kg	SW846 6010C
Nickel		16.6	4.5		mg/kg	SW846 6010C
Potassium		1490	1100		mg/kg	SW846 6010C
Vanadium		25.1	5.6		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB25553
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 01/03/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		23.2	2.2		mg/kg	SW846 6010C
JB25553-5	**060/PE-10**					
Total TIC, Volatile		118.1 J			ug/kg	
Di-n-octyl phthalate		94.6	68	17	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		53.0 J	68	30	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		2360 J			ug/kg	
Aluminum		8680	110		mg/kg	SW846 6010C
Arsenic		2.2	2.2		mg/kg	SW846 6010C
Barium		51.3	22		mg/kg	SW846 6010C
Beryllium		0.52	0.22		mg/kg	SW846 6010C
Calcium		1140	540		mg/kg	SW846 6010C
Chromium		17.2	1.1		mg/kg	SW846 6010C
Copper		16.9	2.7		mg/kg	SW846 6010C
Iron		12900	220		mg/kg	SW846 6010C
Lead		8.5	2.2		mg/kg	SW846 6010C
Magnesium		2540	540		mg/kg	SW846 6010C
Manganese		291	1.6		mg/kg	SW846 6010C
Nickel		17.4	4.3		mg/kg	SW846 6010C
Potassium		1460	1100		mg/kg	SW846 6010C
Vanadium		19.9	5.4		mg/kg	SW846 6010C
Zinc		24.2	2.2		mg/kg	SW846 6010C
JB25553-6	**061/DUP**					
Methylene chloride		9.8	5.1	1.3	ug/kg	SW846 8260B
Toluene		0.31 J	1.0	0.11	ug/kg	SW846 8260B
Total TIC, Volatile		296.4 J			ug/kg	
Di-n-octyl phthalate		94.0	68	17	ug/kg	SW846 8270D
Dimethyl phthalate		47.6 J	68	12	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		43.6 J	68	30	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		6280 J			ug/kg	
Aluminum		8080	110		mg/kg	SW846 6010C
Arsenic		2.1	2.1		mg/kg	SW846 6010C
Barium		48.6	21		mg/kg	SW846 6010C
Beryllium		0.50	0.21		mg/kg	SW846 6010C
Calcium		1030	530		mg/kg	SW846 6010C
Chromium		17.4	1.1		mg/kg	SW846 6010C
Cobalt		5.5	5.3		mg/kg	SW846 6010C
Copper		16.4	2.7		mg/kg	SW846 6010C
Iron		12900	210		mg/kg	SW846 6010C
Lead		8.6	2.1		mg/kg	SW846 6010C
Magnesium		2500	530		mg/kg	SW846 6010C
Manganese		271	1.6		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB25553
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 01/03/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		15.0	4.3		mg/kg	SW846 6010C
Potassium		1340	1100		mg/kg	SW846 6010C
Vanadium		20.4	5.3		mg/kg	SW846 6010C
Zinc		24.4	2.1		mg/kg	SW846 6010C

JB25553-8 **TB**

No hits reported in this sample.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A190405.D	1	01/08/13	OTR	n/a	n/a	VA7156
Run #2							

	Initial Weight
Run #1	5.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.4	9.8	1.7	ug/kg	J
71-43-2	Benzene	ND	0.98	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.10	ug/kg	
75-25-2	Bromoform	ND	4.9	0.15	ug/kg	
74-83-9	Bromomethane	ND	4.9	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.8	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.11	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.22	ug/kg	
67-66-3	Chloroform	ND	4.9	0.081	ug/kg	
74-87-3	Chloromethane	ND	4.9	0.18	ug/kg	
110-82-7	Cyclohexane	ND	4.9	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.8	0.87	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.98	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.98	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.9	0.25	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.9	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.9	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	0.98	0.26	ug/kg	
76-13-1	Freon 113	ND	4.9	0.42	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.9	0.61	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	0.073	ug/kg	
79-20-9	Methyl Acetate	ND	4.9	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	4.9	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.98	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.9	0.74	ug/kg	
75-09-2	Methylene chloride	5.5	4.9	1.2	ug/kg	
100-42-5	Styrene	ND	4.9	0.090	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	4.9	0.17	ug/kg	
108-88-3	Toluene	ND	0.98	0.10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	0.10	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	0.17	ug/kg	
79-01-6	Trichloroethene	ND	4.9	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	0.14	ug/kg	
	m,p-Xylene	ND	0.98	0.17	ug/kg	
95-47-6	o-Xylene	ND	0.98	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	79%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	101%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	18.65	16	ug/kg	J
	unknown	18.95	26	ug/kg	J
	unknown	19.27	26	ug/kg	J
	unknown	19.46	17	ug/kg	J
	Cyclohexane alkyl	19.68	6.9	ug/kg	J
	unknown	19.74	7.7	ug/kg	J
	unknown	19.96	7.6	ug/kg	J
	unknown	20.34	25	ug/kg	J
	unknown	20.48	23	ug/kg	J
	unknown	20.64	43	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	20.73	8.1	ug/kg	J
	unknown	20.84	24	ug/kg	J
	unknown	21.04	8	ug/kg	J
	unknown	21.40	32	ug/kg	J
	unknown	21.55	12	ug/kg	J
	Total TIC, Volatile		282.3	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15730.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	33.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.8	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	16	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	62.6	67	30	ug/kg	J
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	67	9.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.2	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	15	ug/kg	
129-00-0	Pyrene	ND	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	63%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	104%		24-136%
4165-60-0	Nitrobenzene-d5	67%		21-122%
321-60-8	2-Fluorobiphenyl	76%		30-117%
1718-51-0	Terphenyl-d14	90%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1100	ug/kg	J
	system artifact	2.07	2000	ug/kg	J
	system artifact/aldol-condensation	2.38	420	ug/kg	J
	system artifact	2.51	190	ug/kg	J
	system artifact	3.27	290	ug/kg	J
	unknown	6.43	190	ug/kg	J
	unknown	6.71	180	ug/kg	J
	unknown	7.19	210	ug/kg	J
	unknown	7.52	280	ug/kg	J
	unknown	7.99	190	ug/kg	J
	unknown	8.09	210	ug/kg	J
	alkane	8.17	190	ug/kg	J
	unknown	8.31	420	ug/kg	J
	unknown	8.62	190	ug/kg	J
	unknown	8.76	420	ug/kg	J
	unknown	9.00	290	ug/kg	J
	unknown	9.06	280	ug/kg	J
	unknown	9.10	390	ug/kg	J
	unknown	9.17	630	ug/kg	J
	unknown	9.23	190	ug/kg	J
	unknown	9.30	270	ug/kg	J
	unknown	10.03	180	ug/kg	J
	alkane	10.10	690	ug/kg	J
	unknown	10.63	180	ug/kg	J
	alkane	10.85	260	ug/kg	J
	unknown	11.07	260	ug/kg	J
	unknown	11.27	2100	ug/kg	J
	unknown	11.37	1700	ug/kg	J
	unknown	11.77	200	ug/kg	J
	unknown	11.84	540	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	12.60	210	ug/kg	JN
	unknown	18.28	270	ug/kg	J
	Total TIC, Semi-Volatile		11120	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8989.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.37	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.75	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.75	0.28	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.75	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.29	ug/kg	
72-54-8	4,4'-DDD	ND	0.75	0.41	ug/kg	
72-55-9	4,4'-DDE	ND	0.75	0.30	ug/kg	
50-29-3	4,4'-DDT	ND	0.75	0.37	ug/kg	
72-20-8	Endrin	ND	0.75	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.32	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.75	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.75	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.73	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.30	ug/kg	
8001-35-2	Toxaphene	ND	19	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		23-137%
877-09-8	Tetrachloro-m-xylene	90%		23-137%
2051-24-3	Decachlorobiphenyl	67%		22-160%
2051-24-3	Decachlorobiphenyl	83%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.4
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76065.D	1	01/08/13	JR	01/07/13	OP62591	G2G2555
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.7	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		22-141%
877-09-8	Tetrachloro-m-xylene	56%		22-141%
2051-24-3	Decachlorobiphenyl	80%		18-163%
2051-24-3	Decachlorobiphenyl	91%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	056/PE-6		
Lab Sample ID:	JB25553-1	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	89.4
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10200	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Arsenic	2.7	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Barium	56.0	23	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.57	0.23	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Calcium	1380	570	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Chromium	25.9	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cobalt	7.4	5.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Copper	18.0	2.9	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Iron	15600	230	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Lead	9.1	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3420	570	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Manganese	451	1.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [2]	SW846 7471B [4]
Nickel	30.4	4.6	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Potassium	2270	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Vanadium	28.5	5.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Zinc	25.0	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30264
(3) Prep QC Batch: MP68989
(4) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A190406.D	1	01/08/13	OTR	n/a	n/a	VA7156
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.6	1.6	ug/kg	
71-43-2	Benzene	ND	0.96	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.10	ug/kg	
75-25-2	Bromoform	ND	4.8	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.8	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.6	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	4.8	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.22	ug/kg	
67-66-3	Chloroform	ND	4.8	0.079	ug/kg	
74-87-3	Chloromethane	ND	4.8	0.18	ug/kg	
110-82-7	Cyclohexane	ND	4.8	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.6	0.85	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.96	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.96	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.8	0.25	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.8	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.8	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	57	ug/kg	
100-41-4	Ethylbenzene	ND	0.96	0.25	ug/kg	
76-13-1	Freon 113	ND	4.8	0.41	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.8	0.60	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.071	ug/kg	
79-20-9	Methyl Acetate	ND	4.8	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	4.8	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.96	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.8	0.72	ug/kg	
75-09-2	Methylene chloride	ND	4.8	1.2	ug/kg	
100-42-5	Styrene	ND	4.8	0.088	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	4.8	0.16	ug/kg	
108-88-3	Toluene	ND	0.96	0.10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.10	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.17	ug/kg	
79-01-6	Trichloroethene	ND	4.8	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.14	ug/kg	
	m,p-Xylene	ND	0.96	0.17	ug/kg	
95-47-6	o-Xylene	ND	0.96	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
17060-07-0	1,2-Dichloroethane-D4	76%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	99%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	18.01	9.9	ug/kg	J
	alkane	18.65	31	ug/kg	J
	unknown	19.27	46	ug/kg	J
	unknown	19.69	10	ug/kg	J
	unknown	19.75	11	ug/kg	J
	unknown	19.81	9.3	ug/kg	J
	unknown	19.97	9.8	ug/kg	J
	unknown	20.34	35	ug/kg	J
	unknown	20.47	31	ug/kg	J
	unknown	20.64	44	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	20.73	9.5	ug/kg	J
	unknown	20.84	21	ug/kg	J
	unknown	21.03	8.3	ug/kg	J
	unknown	21.41	39	ug/kg	J
	unknown	21.55	9.6	ug/kg	J
	Total TIC, Volatile		324.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15728.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	113	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	113	72	32	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
129-00-0	Pyrene	ND	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	64%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	91%		24-136%
4165-60-0	Nitrobenzene-d5	69%		21-122%
321-60-8	2-Fluorobiphenyl	77%		30-117%
1718-51-0	Terphenyl-d14	79%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1200	ug/kg	J
	system artifact	2.07	2200	ug/kg	J
	system artifact	2.30	170	ug/kg	J
	system artifact	2.34	210	ug/kg	J
	system artifact/aldol-condensation	2.38	500	ug/kg	J
	system artifact	2.51	230	ug/kg	J
	system artifact	3.27	290	ug/kg	J
	unknown	6.43	150	ug/kg	J
	unknown	7.51	170	ug/kg	J
	unknown	7.98	260	ug/kg	J
	unknown	8.12	150	ug/kg	J
	alkane	8.17	190	ug/kg	J
	unknown	8.31	420	ug/kg	J
	unknown	8.76	310	ug/kg	J
	unknown	8.99	240	ug/kg	J
	unknown	9.04	240	ug/kg	J
	unknown	9.09	240	ug/kg	J
	unknown	9.17	360	ug/kg	J
	unknown	9.22	150	ug/kg	J
	unknown	9.29	190	ug/kg	J
	alkane	10.09	480	ug/kg	J
	unknown	10.33	210	ug/kg	J
	unknown	10.62	150	ug/kg	J
	alkane	10.84	260	ug/kg	J
	unknown	11.23	180	ug/kg	J
	unknown	11.64	390	ug/kg	J
	unknown	11.83	290	ug/kg	J
	unknown	12.26	230	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	12.59	190	ug/kg	JN
	unknown	12.77	180	ug/kg	J
	Total TIC, Semi-Volatile		5630	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8990.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.50	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.29	ug/kg	
72-54-8	4,4'-DDD	ND	0.73	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.29	ug/kg	
50-29-3	4,4'-DDT	ND	0.73	0.36	ug/kg	
72-20-8	Endrin	ND	0.73	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.72	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		23-137%
877-09-8	Tetrachloro-m-xylene	88%		23-137%
2051-24-3	Decachlorobiphenyl	90%		22-160%
2051-24-3	Decachlorobiphenyl	101%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76066.D	1	01/08/13	JR	01/07/13	OP62591	G2G2555
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	18	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		22-141%
877-09-8	Tetrachloro-m-xylene	68%		22-141%
2051-24-3	Decachlorobiphenyl	85%		18-163%
2051-24-3	Decachlorobiphenyl	82%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	057/PE-7		
Lab Sample ID:	JB25553-2	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	90.0
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9070	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Arsenic	< 2.3	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Barium	51.0	23	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.58	0.23	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Calcium	1240	570	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Chromium	16.7	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cobalt	< 5.7	5.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Copper	14.6	2.8	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Iron	12100	230	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Lead	10.6	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2350	570	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Manganese	348	1.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.035	0.035	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [2]	SW846 7471B [4]
Nickel	15.5	4.5	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Potassium	1370	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Vanadium	17.4	5.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Zinc	24.8	2.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30264
(3) Prep QC Batch: MP68989
(4) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C94694.D	1	01/12/13	JTP	n/a	n/a	V3C4200
Run #2							

	Initial Weight
Run #1	6.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.8	1.5	ug/kg	
71-43-2	Benzene	ND	0.88	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	0.23	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	0.092	ug/kg	
75-25-2	Bromoform	ND	4.4	0.13	ug/kg	
74-83-9	Bromomethane	ND	4.4	0.24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.8	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	4.4	0.10	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.4	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.095	ug/kg	
75-00-3	Chloroethane	ND	4.4	0.20	ug/kg	
67-66-3	Chloroform	ND	4.4	0.072	ug/kg	
74-87-3	Chloromethane	ND	4.4	0.16	ug/kg	
110-82-7	Cyclohexane	ND	4.4	0.11	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.8	0.78	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	0.14	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.88	0.11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.4	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.4	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.4	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	0.20	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	0.12	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.88	0.12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.4	0.23	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.4	0.16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.4	0.21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	110	52	ug/kg	
100-41-4	Ethylbenzene	ND	0.88	0.23	ug/kg	
76-13-1	Freon 113	ND	4.4	0.38	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.4	0.55	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	0.065	ug/kg	
79-20-9	Methyl Acetate	ND	4.4	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	4.4	0.15	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.88	0.21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.4	0.66	ug/kg	
75-09-2	Methylene chloride	ND	4.4	1.1	ug/kg	
100-42-5	Styrene	ND	4.4	0.080	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.4	0.15	ug/kg	
108-88-3	Toluene	ND	0.88	0.092	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	0.14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.12	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.093	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	0.15	ug/kg	
79-01-6	Trichloroethene	ND	4.4	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	0.26	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	0.13	ug/kg	
	m,p-Xylene	ND	0.88	0.15	ug/kg	
95-47-6	o-Xylene	ND	0.88	0.12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	84%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	109%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15726.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	33.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	38	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	160	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	56	ug/kg	
108-95-2	Phenol	ND	66	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.6	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
98-86-2	Acetophenone	ND	160	5.8	ug/kg	
120-12-7	Anthracene	ND	33	12	ug/kg	
1912-24-9	Atrazine	ND	160	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	66	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	11	ug/kg	
86-74-8	Carbazole	ND	66	15	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	66	10	ug/kg	
218-01-9	Chrysene	ND	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	9.9	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.8	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	9.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	66	9.8	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	66	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate	91.3	66	16	ug/kg	
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	48.4	66	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	46.1	66	29	ug/kg	J
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.2	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.2	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	66	8.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	15	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.0	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	ND	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		21-116%
4165-62-2	Phenol-d5	53%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80%		24-136%
4165-60-0	Nitrobenzene-d5	55%		21-122%
321-60-8	2-Fluorobiphenyl	61%		30-117%
1718-51-0	Terphenyl-d14	76%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1100	ug/kg	J
	system artifact	2.07	1800	ug/kg	J
	system artifact	2.34	150	ug/kg	J
	system artifact/aldol-condensation	2.38	300	ug/kg	J
	system artifact	2.51	160	ug/kg	J
	alkane	10.08	130	ug/kg	J
	Total TIC, Semi-Volatile		130	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8991.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.50	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.29	ug/kg	
72-54-8	4,4'-DDD	ND	0.73	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.29	ug/kg	
50-29-3	4,4'-DDT	ND	0.73	0.36	ug/kg	
72-20-8	Endrin	ND	0.73	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.72	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86% [a]		23-137%
877-09-8	Tetrachloro-m-xylene	93% [a]		23-137%
2051-24-3	Decachlorobiphenyl	80% [a]		22-160%
2051-24-3	Decachlorobiphenyl	90% [a]		22-160%

(a) Surrogate double spiked; The recovery re-calculated based on the spike amount.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.5
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76067.D	1	01/08/13	JR	01/07/13	OP62591	G2G2555
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	154% [a]		22-141%
877-09-8	Tetrachloro-m-xylene	159% [a]		22-141%
2051-24-3	Decachlorobiphenyl	157%		18-163%
2051-24-3	Decachlorobiphenyl	168% [a]		18-163%

(a) High percent recoveries and no positive found in the sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	058/PE-8		
Lab Sample ID:	JB25553-3	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	90.5
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9450	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Antimony	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Arsenic	2.9	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Barium	55.8	22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Beryllium	0.98	0.22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 0.55	0.55	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Calcium	4560	550	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Chromium	34.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cobalt	6.1	5.5	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Copper	21.4	2.8	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Iron	17000	220	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Lead	13.4	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Magnesium	4220	550	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Manganese	326	1.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [3]	SW846 7471B [5]
Nickel	41.5	4.4	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Potassium	1640	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Selenium	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Silver	< 0.55	0.55	mg/kg	1	01/07/13	01/09/13	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Vanadium	27.6	5.5	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Zinc	32.0	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30254
(3) Instrument QC Batch: MA30264
(4) Prep QC Batch: MP68989
(5) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A190408.D	1	01/08/13	OTR	n/a	n/a	VA7156
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.4	1.6	ug/kg	
71-43-2	Benzene	ND	0.94	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.098	ug/kg	
75-25-2	Bromoform	ND	4.7	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.4	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.21	ug/kg	
67-66-3	Chloroform	ND	4.7	0.077	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.7	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.4	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.94	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.94	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.7	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.7	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.7	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	120	56	ug/kg	
100-41-4	Ethylbenzene	ND	0.94	0.25	ug/kg	
76-13-1	Freon 113	ND	4.7	0.40	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.7	0.58	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	0.069	ug/kg	
79-20-9	Methyl Acetate	ND	4.7	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	4.7	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.94	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	0.70	ug/kg	
75-09-2	Methylene chloride	4.6	4.7	1.2	ug/kg	J
100-42-5	Styrene	ND	4.7	0.086	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.7	0.16	ug/kg	
108-88-3	Toluene	ND	0.94	0.098	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.099	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.7	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.13	ug/kg	
	m,p-Xylene	ND	0.94	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.94	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	75%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	100%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	18.65	13	ug/kg	J
1687-36-1	1,3,5,7-Tetramethyl-adamantane	18.95	23	ug/kg	JN
	unknown	19.27	21	ug/kg	J
	unknown	19.74	7.4	ug/kg	J
	unknown	19.82	5.7	ug/kg	J
	unknown	19.96	7.5	ug/kg	J
	unknown	20.33	22	ug/kg	J
	unknown	20.48	19	ug/kg	J
	unknown	20.64	36	ug/kg	J
	unknown	20.73	6.6	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	20.84	24	ug/kg	J
	unknown	21.03	7.5	ug/kg	J
	unknown	21.23	5.4	ug/kg	J
	unknown	21.41	27	ug/kg	J
	unknown	21.55	12	ug/kg	J
	Total TIC, Volatile		237.1	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15731.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	37.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	30	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	47	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	49	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	590	36	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	36	ug/kg	
95-48-7	2-Methylphenol	ND	59	33	ug/kg	
	3&4-Methylphenol	ND	59	37	ug/kg	
88-75-5	2-Nitrophenol	ND	150	31	ug/kg	
100-02-7	4-Nitrophenol	ND	290	49	ug/kg	
87-86-5	Pentachlorophenol	ND	290	50	ug/kg	
108-95-2	Phenol	ND	59	31	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	34	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	28	ug/kg	
83-32-9	Acenaphthene	ND	29	8.5	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.4	ug/kg	
98-86-2	Acetophenone	ND	150	5.2	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	150	5.8	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.5	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.8	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	59	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	59	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	59	3.4	ug/kg	
100-52-7	Benzaldehyde	ND	150	6.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	59	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.4	ug/kg	
86-74-8	Carbazole	ND	59	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	59	9.2	ug/kg	
218-01-9	Chrysene	ND	29	9.9	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	59	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	59	8.8	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	59	8.7	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	59	8.8	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	59	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	59	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	7.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	10	ug/kg	
132-64-9	Dibenzofuran	ND	59	8.7	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	59	6.5	ug/kg	
117-84-0	Di-n-octyl phthalate	80.8	59	14	ug/kg	
84-66-2	Diethyl phthalate	ND	59	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	59	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	43.7	59	26	ug/kg	J
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.6	ug/kg	
118-74-1	Hexachlorobenzene	ND	59	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	8.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	30	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	10	ug/kg	
78-59-1	Isophorone	ND	59	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	59	16	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	11	ug/kg	
91-20-3	Naphthalene	ND	29	8.0	ug/kg	
98-95-3	Nitrobenzene	ND	59	8.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	59	7.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	15.8	29	11	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		21-116%
4165-62-2	Phenol-d5	65%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97%		24-136%
4165-60-0	Nitrobenzene-d5	72%		21-122%
321-60-8	2-Fluorobiphenyl	78%		30-117%
1718-51-0	Terphenyl-d14	87%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1000	ug/kg	J
110-86-1	Pyridine	1.77	190	ug/kg	JN
	system artifact	2.07	1100	ug/kg	J
	unknown	2.30	140	ug/kg	J
67-68-5	Dimethyl Sulfoxide	2.34	240	ug/kg	JN
	system artifact/aldol-condensation	2.38	940	ug/kg	J
	unknown	2.51	180	ug/kg	J
	unknown	3.27	230	ug/kg	J
	unknown	3.69	140	ug/kg	J
	unknown	7.52	220	ug/kg	J
	unknown	7.99	140	ug/kg	J
	unknown	8.09	160	ug/kg	J
	unknown	8.23	140	ug/kg	J
	unknown	8.31	370	ug/kg	J
	unknown	8.62	140	ug/kg	J
	unknown	8.76	230	ug/kg	J
	unknown	8.99	210	ug/kg	J
	unknown	9.06	220	ug/kg	J
	unknown	9.10	210	ug/kg	J
	unknown	9.18	370	ug/kg	J
	unknown	9.22	140	ug/kg	J
	unknown	9.29	180	ug/kg	J
	alkane	10.10	310	ug/kg	J
	alkane	10.84	230	ug/kg	J
	unknown	11.76	170	ug/kg	J
	unknown	11.84	290	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	12.60	230	ug/kg	JN
	Total TIC, Semi-Volatile		5080	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8992.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.43	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.48	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.27	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.38	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.28	ug/kg	
50-29-3	4,4'-DDT	ND	0.69	0.34	ug/kg	
72-20-8	Endrin	ND	0.69	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.68	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		23-137%
877-09-8	Tetrachloro-m-xylene	84%		23-137%
2051-24-3	Decachlorobiphenyl	77%		22-160%
2051-24-3	Decachlorobiphenyl	86%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76091.D	1	01/08/13	JR	01/07/13	OP62591	G2G2556
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		22-141%
877-09-8	Tetrachloro-m-xylene	53%		22-141%
2051-24-3	Decachlorobiphenyl	77%		18-163%
2051-24-3	Decachlorobiphenyl	55%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	059/PE-9		
Lab Sample ID:	JB25553-4	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	90.6
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9230	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Antimony	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Arsenic	2.5	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Barium	53.1	22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Beryllium	0.50	0.22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 0.56	0.56	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Calcium	1610	560	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Chromium	21.3	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cobalt	< 5.6	5.6	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Copper	17.7	2.8	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Iron	14100	220	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Lead	8.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Magnesium	2780	560	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Manganese	269	1.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [3]	SW846 7471B [5]
Nickel	16.6	4.5	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Potassium	1490	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Selenium	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Silver	< 0.56	0.56	mg/kg	1	01/07/13	01/09/13	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Vanadium	25.1	5.6	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Zinc	23.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30254
(3) Instrument QC Batch: MA30264
(4) Prep QC Batch: MP68989
(5) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C94695.D	1	01/12/13	JTP	n/a	n/a	V3C4200
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.2	1.6	ug/kg	
71-43-2	Benzene	ND	0.92	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	0.24	ug/kg	
75-27-4	Bromodichloromethane	ND	4.6	0.097	ug/kg	
75-25-2	Bromoform	ND	4.6	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.6	0.25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.2	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	4.6	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.6	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.6	0.099	ug/kg	
75-00-3	Chloroethane	ND	4.6	0.21	ug/kg	
67-66-3	Chloroform	ND	4.6	0.076	ug/kg	
74-87-3	Chloromethane	ND	4.6	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.6	0.11	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.2	0.82	ug/kg	
124-48-1	Dibromochloromethane	ND	4.6	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.92	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.6	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.6	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.6	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.6	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.92	0.12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.6	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.6	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.6	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.6	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.6	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.6	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	110	55	ug/kg	
100-41-4	Ethylbenzene	ND	0.92	0.24	ug/kg	
76-13-1	Freon 113	ND	4.6	0.40	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.6	0.57	ug/kg	
98-82-8	Isopropylbenzene	ND	4.6	0.068	ug/kg	
79-20-9	Methyl Acetate	ND	4.6	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	4.6	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.92	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.6	0.69	ug/kg	
75-09-2	Methylene chloride	ND	4.6	1.2	ug/kg	
100-42-5	Styrene	ND	4.6	0.084	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.6	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.6	0.16	ug/kg	
108-88-3	Toluene	ND	0.92	0.097	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.6	0.097	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.6	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.6	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	4.6	0.13	ug/kg	
	m,p-Xylene	ND	0.92	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.92	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
17060-07-0	1,2-Dichloroethane-D4	85%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	107%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkene	17.15	5.1	ug/kg	J
	alkane	17.40	4.8	ug/kg	J
	unknown	17.98	6.6	ug/kg	J
	unknown	18.27	12	ug/kg	J
	unknown	18.46	5.2	ug/kg	J
	unknown	18.56	28	ug/kg	J
	alkane	19.07	32	ug/kg	J
	unknown	19.56	7.4	ug/kg	J
	unknown	19.85	12	ug/kg	J
	unknown	19.93	5	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		118.1	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15727.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	32.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.9	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	ND	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	94.6	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	53.0	68	30	ug/kg	J
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	16	ug/kg	
129-00-0	Pyrene	ND	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		21-116%
4165-62-2	Phenol-d5	70%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97%		24-136%
4165-60-0	Nitrobenzene-d5	74%		21-122%
321-60-8	2-Fluorobiphenyl	78%		30-117%
1718-51-0	Terphenyl-d14	92%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1100	ug/kg	J
110-86-1	Pyridine	1.76	950	ug/kg	JN
	system artifact	1.95	210	ug/kg	J
	system artifact	2.07	1300	ug/kg	J
67-68-5	Dimethyl Sulfoxide	2.32	860	ug/kg	JN
	system artifact/aldol-condensation	2.38	930	ug/kg	J
	system artifact	2.51	230	ug/kg	J
	unknown	2.58	230	ug/kg	J
	unknown	3.27	170	ug/kg	J
	alkane	10.09	150	ug/kg	J
	Total TIC, Semi-Volatile		2360	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8993.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.26	ug/kg	
72-54-8	4,4'-DDD	ND	0.68	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.68	0.27	ug/kg	
50-29-3	4,4'-DDT	ND	0.68	0.33	ug/kg	
72-20-8	Endrin	ND	0.68	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.35	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.66	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		23-137%
877-09-8	Tetrachloro-m-xylene	101%		23-137%
2051-24-3	Decachlorobiphenyl	89%		22-160%
2051-24-3	Decachlorobiphenyl	104%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.6
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76097.D	1	01/08/13	JR	01/07/13	OP62591	G2G2556
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		22-141%
877-09-8	Tetrachloro-m-xylene	72%		22-141%
2051-24-3	Decachlorobiphenyl	82%		18-163%
2051-24-3	Decachlorobiphenyl	78%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	060/PE-10		
Lab Sample ID:	JB25553-5	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	90.6
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8680	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Arsenic	2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Barium	51.3	22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.52	0.22	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Calcium	1140	540	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Chromium	17.2	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Copper	16.9	2.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Iron	12900	220	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Lead	8.5	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2540	540	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Manganese	291	1.6	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.032	0.032	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [2]	SW846 7471B [4]
Nickel	17.4	4.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Potassium	1460	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Vanadium	19.9	5.4	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]
Zinc	24.2	2.2	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30264
(3) Prep QC Batch: MP68989
(4) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A190410.D	1	01/08/13	OTR	n/a	n/a	VA7156
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	0.11	ug/kg	
75-25-2	Bromoform	ND	5.1	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.23	ug/kg	
67-66-3	Chloroform	ND	5.1	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.1	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.90	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/kg	
76-13-1	Freon 113	ND	5.1	0.43	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.1	0.63	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	0.075	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.1	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.76	ug/kg	
75-09-2	Methylene chloride	9.8	5.1	1.3	ug/kg	
100-42-5	Styrene	ND	5.1	0.093	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	0.17	ug/kg	
108-88-3	Toluene	0.31	1.0	0.11	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.1	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	0.15	ug/kg	
	m,p-Xylene	ND	1.0	0.18	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	74%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	101%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	18.65	16	ug/kg	J
34694-70-7	1,3,5,6-Tetramethyladamantane	18.95	32	ug/kg	JN
	unknown	19.27	29	ug/kg	J
	unknown	19.46	21	ug/kg	J
	unknown	19.67	7.8	ug/kg	J
	unknown	19.74	10	ug/kg	J
	unknown	19.96	8.4	ug/kg	J
	unknown	20.33	24	ug/kg	J
	unknown	20.48	21	ug/kg	J
	unknown	20.64	42	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	20.73	8.4	ug/kg	J
	unknown	20.84	29	ug/kg	J
	unknown	21.04	8.8	ug/kg	J
	unknown	21.41	25	ug/kg	J
	unknown	21.55	14	ug/kg	J
	Total TIC, Volatile		296.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P15732.D	1	01/09/13	KH	01/07/13	OP62607	E3P723
Run #2							

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.9	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	ND	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	94.0	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	47.6	68	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	43.6	68	30	ug/kg	J
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	16	ug/kg	
129-00-0	Pyrene	ND	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		21-116%
4165-62-2	Phenol-d5	62%		19-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	98%		24-136%
4165-60-0	Nitrobenzene-d5	64%		21-122%
321-60-8	2-Fluorobiphenyl	74%		30-117%
1718-51-0	Terphenyl-d14	85%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	910	ug/kg	J
	system artifact	2.07	1900	ug/kg	J
	system artifact	2.34	160	ug/kg	J
	system artifact/aldol-condensation	2.38	430	ug/kg	J
	system artifact	2.51	170	ug/kg	J
	unknown	3.27	340	ug/kg	J
	unknown	3.69	210	ug/kg	J
	unknown	7.51	150	ug/kg	J
	unknown	8.31	250	ug/kg	J
	unknown	8.62	160	ug/kg	J
	unknown	8.85	180	ug/kg	J
	unknown	8.90	180	ug/kg	J
	unknown	8.99	240	ug/kg	J
	unknown	9.06	320	ug/kg	J
	unknown	9.10	240	ug/kg	J
	unknown	9.17	450	ug/kg	J
	unknown	9.22	210	ug/kg	J
	unknown	9.29	290	ug/kg	J
	unknown	9.38	150	ug/kg	J
	unknown	9.87	160	ug/kg	J
	unknown	10.02	150	ug/kg	J
	alkane	10.09	340	ug/kg	J
	unknown	10.62	150	ug/kg	J
	alkane	10.84	250	ug/kg	J
	unknown	11.06	230	ug/kg	J
	unknown	11.24	150	ug/kg	J
	unknown	11.64	200	ug/kg	J
	unknown	11.77	210	ug/kg	J
	unknown	11.84	400	ug/kg	J
	unknown	12.27	300	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	12.60	180	ug/kg	JN
	unknown	12.79	190	ug/kg	J
	Total TIC, Semi-Volatile		6280	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G8994.D	1	01/08/13	HQ	01/07/13	OP62592	G5G235
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.43	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.27	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.28	ug/kg	
50-29-3	4,4'-DDT	ND	0.69	0.34	ug/kg	
72-20-8	Endrin	ND	0.69	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.67	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		23-137%
877-09-8	Tetrachloro-m-xylene	71%		23-137%
2051-24-3	Decachlorobiphenyl	70%		22-160%
2051-24-3	Decachlorobiphenyl	81%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G76098.D	1	01/08/13	JR	01/07/13	OP62591	G2G2556
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		22-141%
877-09-8	Tetrachloro-m-xylene	57%		22-141%
2051-24-3	Decachlorobiphenyl	81%		18-163%
2051-24-3	Decachlorobiphenyl	74%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	061/DUP		
Lab Sample ID:	JB25553-6	**Date Sampled:**	01/03/13
Matrix:	SO - Soil	**Date Received:**	01/04/13
		Percent Solids:	90.0
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8080	110	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Antimony	< 2.1	2.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Arsenic	2.1	2.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Barium	48.6	21	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Beryllium	0.50	0.21	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 0.53	0.53	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Calcium	1030	530	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Chromium	17.4	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Cobalt	5.5	5.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Copper	16.4	2.7	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Iron	12900	210	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Lead	8.6	2.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Magnesium	2500	530	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Manganese	271	1.6	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/11/13	01/11/13	JW	SW846 7471B [3]	SW846 7471B [5]
Nickel	15.0	4.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Potassium	1340	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Selenium	< 2.1	2.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Silver	< 0.53	0.53	mg/kg	1	01/07/13	01/09/13	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Vanadium	20.4	5.3	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]
Zinc	24.4	2.1	mg/kg	1	01/07/13	01/08/13	CS	SW846 6010C [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA30238
(2) Instrument QC Batch: MA30254
(3) Instrument QC Batch: MA30264
(4) Prep QC Batch: MP68989
(5) Prep QC Batch: MP69081

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JB25553-8	**Date Sampled:**	01/03/13
Matrix:	AQ - Trip Blank Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B25872.D	1	01/09/13	TYG	n/a	n/a	V4B1130
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JB25553-8	**Date Sampled:**	01/03/13
Matrix:	AQ - Trip Blank Soil	**Date Received:**	01/04/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		81-121%
17060-07-0	1,2-Dichloroethane-D4	105%		74-127%
2037-26-5	Toluene-D8	106%		80-122%
460-00-4	4-Bromofluorobenzene	101%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

SLL
SO
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CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

PN

LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE D.P.C.

FED-EX Tracking #	Bottle Order Control # RB-12/31/2012-16
Accutest Quote #	Accutest Job # JB25553

Client / Reporting Information

Company Name: ~~LANGAN~~
Street Address: 619 RIVER DRIVE
City State Zip: ELMWOOD PARK NJ
Project Contact E-mail: CHRIS MCMAHON CMCMAHON@LANGAN.COM
Phone #: 201 398 4535
Sampler(s) Name(s) Phone #: LINDSAY DECKARD

Project Information

Project Name: 508 W 24TH ST
Street: 508 W 24TH ST
City State: MANHATTAN NY
Project #: 100242701
Client Purchase Order #:
Project Manager: MCCLOSKEY ~~CHRIS MCMAHON~~
Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): VOC 8260, SVOC 8270, TAL METALS 8081, PESTICIDES/PCB 8082

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC 8260	SVOC 8270	TAL METALS 8081	PESTICIDES/PCB 8082	LAB USE ONLY
-1	056 PE-6		3JAN13	0930	LD	SO	4					1			3	3	1	1	1	48A
-2	057 PE-7		3JAN13	0932	LD	SO	4					1			3	3	1	1	1	19J4
-3	058 PE-8		3JAN13	0935	LD	SO	4					1			3	3	1	1	1	14K3
-4	059 PE-9		3JAN13	0940	LD	SO	4					1			3	3	1	1	1	4920
-5	060 PE-10		3JAN13	0942	LD	SO	4					1			3	3	1	1	1	875
-6	061 DUP		3JAN13	—	LD	SO	4					1			3	3	1	1	1	
-7	062 FB		3JAN13	0945	LD	SO	2					2				2				
-8	TB		1/2/13	0800		TB	2	2												

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☒ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☒ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

ELECTRONIC COPIES ONLY PLEASE
3 ENCORES 1/4/12
TB ADDED TO COC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	3JAN13	1 STORAGE 3JAN13 1660	2	1/4/13 15:45	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 924 ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 5.3°C

2A

1 COOLER 764

JB25553: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB25553 **Client:** LANGAN ENGINEERING **Project:** 508 W. 24TH ST.

Date / Time Received: 1/4/2013 15:45 **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (5.3/5.3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No, Coolers			

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments -7 REC'D (2) 950MLWATER VOLUMES, CHAIN IS MARKED WITH MATRIX OF SO. DID NOT RECEIVE VOLUMES FOR VO REQUESTED ON COC.

ALSO REC'D (2) 40ML HCL PRES. WATER VOLUMES WHICH ARE UNLABELED, ARE THEY FOR -7?.

Revised 1/14/13

-7 Was soil, not a field blank. We received 2 G950 and 2HCL vo vials filled with soil. All bottles were labeled "FB"
Was HCL washed out of 40ml vials? Does soil from G950 need to be prepped for low level?
LLVO prep needed? LLVO prep, if needed, will be done so out of hold.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB25553

CSR: Tammy McCloskey **Response Date:** 1/11/2013

Response: Per Lindsay Decker, JB25553-7, 062/FB, although matrix noted on chain is SO it is a Field Blank and it should be run just for VO. Okay to discard the 2 x 950ml volumes received as they are not needed.

1/16/13 - revised response:
Per further verification with Lindsay Decker she was uncertain on how a field blank was to be sampled and filled the bottles with soil from the site. Please cancel all analysis on JB25553-7.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB25553

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB25553-1 056/PE-6	Collected: 03-JAN-13 09:30 By: LD		Received: 04-JAN-13 By: SC			
JB25553-1	SW846 6010C	08-JAN-13 05:04	CS	07-JAN-13	NS	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB25553-1	SW846 8082A	08-JAN-13 09:00	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-1	SW846 8260B	08-JAN-13 18:44	OTR			V8260TCL11 +
JB25553-1	SW846 8081B	08-JAN-13 21:53	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-1	SW846 8270D	09-JAN-13 15:40	KH	07-JAN-13	MP	AB8270TCL11 +
JB25553-1	SM2540 G-97	10-JAN-13 21:10	MH			%SOL
JB25553-1	SW846 7471B	11-JAN-13 12:37	JW	11-JAN-13	JW	HG
JB25553-2 057/PE-7	Collected: 03-JAN-13 09:32 By: LD		Received: 04-JAN-13 By: SC			
JB25553-2	SW846 6010C	08-JAN-13 05:10	CS	07-JAN-13	NS	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB25553-2	SW846 8082A	08-JAN-13 09:17	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-2	SW846 8260B	08-JAN-13 19:13	OTR			V8260TCL11 +
JB25553-2	SW846 8081B	08-JAN-13 22:08	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-2	SW846 8270D	09-JAN-13 14:52	KH	07-JAN-13	MP	AB8270TCL11 +
JB25553-2	SM2540 G-97	10-JAN-13 21:10	MH			%SOL
JB25553-2	SW846 7471B	11-JAN-13 12:39	JW	11-JAN-13	JW	HG
JB25553-3 058/PE-8	Collected: 03-JAN-13 09:35 By: LD		Received: 04-JAN-13 By: SC			
JB25553-3	SW846 6010C	08-JAN-13 05:28	CS	07-JAN-13	NS	AL,AS,BA,BE,CA,CD,CO,CR,CU, FE,K,MG,MN,NA,NI,PB,SB,SE, TL,V,ZN
JB25553-3	SW846 8082A	08-JAN-13 09:34	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-3	SW846 8081B	08-JAN-13 22:23	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-3	SW846 8270D	09-JAN-13 14:04	KH	07-JAN-13	MP	AB8270TCL11 +
JB25553-3	SW846 6010C	09-JAN-13 16:46	BL	07-JAN-13	NS	AG
JB25553-3	SM2540 G-97	10-JAN-13 21:10	MH			%SOL
JB25553-3	SW846 7471B	11-JAN-13 12:40	JW	11-JAN-13	JW	HG
JB25553-3	SW846 8260B	12-JAN-13 12:56	JTP			V8260TCL11 +

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB25553

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB25553-4 059/PE-9	Collected: 03-JAN-13 09:40 By: LD		Received: 04-JAN-13 By: SC			
JB25553-4	SW846 6010C	08-JAN-13 05:33	CS	07-JAN-13	NS	AL,AS,BA,BE,CA,CD,CO,CR,CU, FE,K,MG,MN,NA,NI,PB,SB,SE, TL,V,ZN
JB25553-4	SW846 8082A	08-JAN-13 19:45	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-4	SW846 8260B	08-JAN-13 20:12	OTR			V8260TCL11+
JB25553-4	SW846 8081B	08-JAN-13 22:54	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-4	SW846 8270D	09-JAN-13 16:03	KH	07-JAN-13	MP	AB8270TCL11+
JB25553-4	SW846 6010C	09-JAN-13 16:52	BL	07-JAN-13	NS	AG
JB25553-4	SM2540 G-97	10-JAN-13 21:10	MH			%SOL
JB25553-4	SW846 7471B	11-JAN-13 12:41	JW	11-JAN-13	JW	HG
JB25553-5 060/PE-10	Collected: 03-JAN-13 09:42 By: LD		Received: 04-JAN-13 By: SC			
JB25553-5	SW846 6010C	08-JAN-13 05:39	CS	07-JAN-13	NS	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB25553-5	SW846 8082A	08-JAN-13 21:50	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-5	SW846 8081B	08-JAN-13 23:10	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-5	SW846 8270D	09-JAN-13 14:28	KH	07-JAN-13	MP	AB8270TCL11+
JB25553-5	SM2540 G-97	10-JAN-13 21:10	MH			%SOL
JB25553-5	SW846 7471B	11-JAN-13 12:43	JW	11-JAN-13	JW	HG
JB25553-5	SW846 8260B	12-JAN-13 13:25	JTP			V8260TCL11+
JB25553-6 061/DUP	Collected: 03-JAN-13 00:00 By: LD		Received: 04-JAN-13 By: SC			
JB25553-6	SW846 6010C	08-JAN-13 05:45	CS	07-JAN-13	NS	AL,AS,BA,BE,CA,CD,CO,CR,CU, FE,K,MG,MN,NA,NI,PB,SB,SE, TL,V,ZN
JB25553-6	SW846 8260B	08-JAN-13 21:26	OTR			V8260TCL11+
JB25553-6	SW846 8082A	08-JAN-13 22:07	JR	07-JAN-13	RK	P8082PCB11AO
JB25553-6	SW846 8081B	08-JAN-13 23:25	HQ	07-JAN-13	RK	P8081PESTTCL
JB25553-6	SW846 8270D	09-JAN-13 16:27	KH	07-JAN-13	MP	AB8270TCL11+
JB25553-6	SW846 6010C	09-JAN-13 16:57	BL	07-JAN-13	NS	AG
JB25553-6	SM2540 G-97	10-JAN-13 21:10	MH			%SOL

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB25553

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB25553-6	SW846 7471B	11-JAN-13 12:44	JW	11-JAN-13	JW	HG
JB25553-8 TB	Collected: 03-JAN-13 09:45 By: LD		Received: 04-JAN-13 By: SC			
JB25553-8	SW846 8260B	09-JAN-13 05:20	TYG			V8260TCL11 +

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-1.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-1.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-1.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-1.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-1.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-1.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-1.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-1.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-1.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-1.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-1.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage
JB25553-1.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-1.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-1.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-1.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-1.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-1.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-1.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-1.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-1.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-1.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-1.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-1.1	Tony Esposito		02/08/13 14:30	Disposed
JB25553-1.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-1.1
JB25553-1.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-1.1
JB25553-1.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-1.1.1	Extract Storage	Joseph Ravino	01/07/13 16:12	Retrieve from Storage
JB25553-1.1.1	Joseph Ravino	GC2G	01/07/13 16:12	Load on Instrument
JB25553-1.1.1	GC2G	Joseph Ravino	01/23/13 11:58	Unload from Instrument
JB25553-1.1.1	Joseph Ravino	Extract Freezer	01/23/13 11:58	Return to Storage
JB25553-1.1.1	Extract Freezer		02/18/13 09:00	Disposed
JB25553-1.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-1.1
JB25553-1.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-1.1
JB25553-1.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-1.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-1.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-1.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument
JB25553-1.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-1.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-1.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-1.1

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-1.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-1.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-1.1.3
JB25553-1.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-1.1.3
JB25553-1.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-1.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-1.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-1.1
JB25553-1.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-1.1
JB25553-1.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-1.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-1.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument
JB25553-1.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-1.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-1.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-1.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-1.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-1.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-1.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-1.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-1.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-1.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument
JB25553-1.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-1.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-1.4	Tony Esposito		02/08/13 14:30	Disposed
JB25553-1.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-1.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-1.5	Tony Esposito		02/08/13 14:30	Disposed
JB25553-2.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-2.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-2.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-2.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-2.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-2.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-2.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-2.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-2.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-2.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-2.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-2.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-2.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-2.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-2.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-2.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-2.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-2.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-2.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-2.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-2.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-2.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-2.1	Tony Esposito		02/08/13 14:30	Disposed
JB25553-2.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-2.1
JB25553-2.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-2.1
JB25553-2.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-2.1.1	Extract Storage	Joseph Ravino	01/07/13 16:12	Retrieve from Storage
JB25553-2.1.1	Joseph Ravino	GC2G	01/07/13 16:12	Load on Instrument
JB25553-2.1.1	GC2G	Joseph Ravino	01/23/13 11:58	Unload from Instrument
JB25553-2.1.1	Joseph Ravino	Extract Freezer	01/23/13 11:58	Return to Storage
JB25553-2.1.1	Extract Freezer		02/18/13 09:00	Disposed
JB25553-2.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-2.1
JB25553-2.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-2.1
JB25553-2.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-2.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-2.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-2.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument
JB25553-2.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-2.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-2.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-2.1
JB25553-2.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-2.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-2.1.3
JB25553-2.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-2.1.3
JB25553-2.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-2.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-2.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-2.1
JB25553-2.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-2.1
JB25553-2.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-2.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-2.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-2.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-2.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-2.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-2.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-2.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-2.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-2.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-2.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-2.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-2.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument
JB25553-2.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-2.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-2.4	Tony Esposito		02/08/13 14:30	Disposed
JB25553-2.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-2.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-2.5	Tony Esposito		02/08/13 14:30	Disposed
JB25553-3.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-3.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-3.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-3.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-3.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-3.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-3.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-3.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-3.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-3.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-3.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage
JB25553-3.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-3.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-3.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-3.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-3.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-3.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-3.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-3.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-3.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-3.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-3.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-3.1	Tony Esposito		02/08/13 14:30	Disposed

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-3.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-3.1
JB25553-3.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-3.1
JB25553-3.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-3.1.1	Extract Storage	Joseph Ravino	01/07/13 16:12	Retrieve from Storage
JB25553-3.1.1	Joseph Ravino	GC2G	01/07/13 16:12	Load on Instrument
JB25553-3.1.1	GC2G	Joseph Ravino	01/23/13 11:58	Unload from Instrument
JB25553-3.1.1	Joseph Ravino	Extract Freezer	01/23/13 11:58	Return to Storage
JB25553-3.1.1	Extract Freezer		02/18/13 09:00	Disposed
JB25553-3.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-3.1
JB25553-3.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-3.1
JB25553-3.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-3.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-3.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-3.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument
JB25553-3.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-3.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-3.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-3.1
JB25553-3.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-3.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-3.1.3
JB25553-3.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-3.1.3
JB25553-3.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-3.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-3.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-3.1
JB25553-3.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-3.1
JB25553-3.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-3.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-3.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument
JB25553-3.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-3.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-3.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-3.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-3.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-3.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-3.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-3.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-3.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-3.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-3.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-3.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-3.4	Tony Esposito		02/08/13 14:30	Disposed
JB25553-3.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-3.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-3.5	Secured Storage	Juntae Park	01/11/13 09:04	Retrieve from Storage
JB25553-3.5	Juntae Park	GCMS3C	01/11/13 09:04	Load on Instrument
JB25553-3.5	GCMS3C	Juntae Park	01/12/13 10:16	Unload from Instrument
JB25553-3.5	Juntae Park	Secured Storage	01/12/13 10:16	Return to Storage
JB25553-3.5	Secured Storage	Juntae Park	01/12/13 10:17	Retrieve from Storage
JB25553-3.5	Juntae Park	GCMS3C	01/12/13 10:17	Load on Instrument
JB25553-3.5	GCMS3C	Juntae Park	01/15/13 12:02	Unload from Instrument
JB25553-3.5	Juntae Park	Secured Storage	01/15/13 12:02	Return to Storage
JB25553-3.5	Tony Esposito		02/08/13 14:30	Disposed
JB25553-4.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-4.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-4.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-4.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-4.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-4.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-4.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-4.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-4.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-4.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-4.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage
JB25553-4.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-4.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-4.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-4.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-4.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-4.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-4.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-4.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-4.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-4.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-4.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-4.1	Tony Esposito		02/08/13 14:30	Disposed
JB25553-4.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-4.1
JB25553-4.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-4.1
JB25553-4.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-4.1.1	Extract Storage	Joseph Ravino	01/07/13 16:12	Retrieve from Storage
JB25553-4.1.1	Joseph Ravino	GC2G	01/07/13 16:12	Load on Instrument
JB25553-4.1.1	GC2G	Joseph Ravino	01/23/13 11:58	Unload from Instrument
JB25553-4.1.1	Joseph Ravino	Extract Freezer	01/23/13 11:58	Return to Storage
JB25553-4.1.1	Extract Freezer		02/18/13 09:00	Disposed
JB25553-4.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-4.1
JB25553-4.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-4.1
JB25553-4.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-4.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-4.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-4.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument
JB25553-4.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-4.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-4.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-4.1
JB25553-4.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-4.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-4.1.3
JB25553-4.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-4.1.3
JB25553-4.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-4.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-4.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-4.1
JB25553-4.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-4.1
JB25553-4.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-4.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-4.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument
JB25553-4.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-4.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-4.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-4.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-4.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-4.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-4.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-4.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-4.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-4.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument
JB25553-4.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-4.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-4.4	Tony Esposito		02/08/13 14:30	Disposed

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-4.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-4.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-4.5	Tony Esposito		02/08/13 14:30	Disposed
JB25553-5.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-5.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-5.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-5.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-5.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-5.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-5.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-5.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-5.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-5.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-5.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage
JB25553-5.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-5.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-5.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-5.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-5.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-5.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-5.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-5.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-5.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-5.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-5.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-5.1	Tony Esposito		02/08/13 14:30	Disposed
JB25553-5.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-5.1
JB25553-5.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-5.1
JB25553-5.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-5.1.1	Extract Storage	Joseph Ravino	01/07/13 16:12	Retrieve from Storage
JB25553-5.1.1	Joseph Ravino	GC2G	01/07/13 16:12	Load on Instrument
JB25553-5.1.1	GC2G	Joseph Ravino	01/23/13 11:58	Unload from Instrument
JB25553-5.1.1	Joseph Ravino	Extract Freezer	01/23/13 11:58	Return to Storage
JB25553-5.1.1	Extract Freezer		02/18/13 09:00	Disposed
JB25553-5.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-5.1
JB25553-5.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-5.1
JB25553-5.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-5.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-5.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-5.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-5.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-5.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-5.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-5.1
JB25553-5.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-5.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-5.1.3
JB25553-5.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-5.1.3
JB25553-5.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-5.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-5.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-5.1
JB25553-5.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-5.1
JB25553-5.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-5.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-5.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument
JB25553-5.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-5.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-5.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-5.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-5.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-5.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-5.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-5.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-5.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-5.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument
JB25553-5.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-5.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-5.4	Tony Esposito		02/08/13 14:30	Disposed
JB25553-5.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-5.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-5.5	Secured Storage	Juntae Park	01/11/13 09:04	Retrieve from Storage
JB25553-5.5	Juntae Park	GCMS3C	01/11/13 09:04	Load on Instrument
JB25553-5.5	GCMS3C	Juntae Park	01/12/13 10:16	Unload from Instrument
JB25553-5.5	Juntae Park	Secured Storage	01/12/13 10:16	Return to Storage
JB25553-5.5	Secured Storage	Juntae Park	01/12/13 10:17	Retrieve from Storage
JB25553-5.5	Juntae Park	GCMS3C	01/12/13 10:17	Load on Instrument
JB25553-5.5	GCMS3C	Juntae Park	01/15/13 12:02	Unload from Instrument
JB25553-5.5	Juntae Park	Secured Storage	01/15/13 12:02	Return to Storage
JB25553-5.5	Tony Esposito		02/08/13 14:30	Disposed

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-6.1	Secured Storage	Rebecca Krug	01/07/13 08:00	Retrieve from Storage
JB25553-6.1	Rebecca Krug	Secured Storage	01/07/13 12:45	Return to Storage
JB25553-6.1	Secured Storage	Alfredo Crespo	01/07/13 13:38	Retrieve from Storage
JB25553-6.1	Alfredo Crespo	Secured Staging Area	01/07/13 13:39	Return to Storage
JB25553-6.1	Alfredo Crespo	Secured Storage	01/07/13 14:46	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB25553-6.1	Secured Storage	Max Ponce	01/07/13 15:06	Retrieve from Storage
JB25553-6.1	Max Ponce	Secured Storage	01/07/13 18:43	Return to Storage
JB25553-6.1	Secured Storage	Brian Racin	01/09/13 13:09	Retrieve from Storage
JB25553-6.1	Brian Racin	Wojciech Rodzik	01/09/13 13:11	Custody Transfer
JB25553-6.1	Wojciech Rodzik	Secured Storage	01/09/13 16:53	Return to Storage
JB25553-6.1	Secured Storage	Adam Scott	01/10/13 14:31	Retrieve from Storage
JB25553-6.1	Adam Scott	Secured Staging Area	01/10/13 14:31	Return to Storage
JB25553-6.1	Secured Staging Area	Minhaj Hashmi	01/10/13 15:04	Retrieve from Storage
JB25553-6.1	Minhaj Hashmi	Secured Storage	01/10/13 21:06	Return to Storage
JB25553-6.1	Secured Storage	Dave Hunkele	01/11/13 07:16	Retrieve from Storage
JB25553-6.1	Dave Hunkele	Secured Staging Area	01/11/13 07:16	Return to Storage
JB25553-6.1	Secured Staging Area	Dave Hunkele	01/11/13 07:29	Retrieve from Storage
JB25553-6.1	Dave Hunkele	Secured Storage	01/11/13 07:30	Return to Storage
JB25553-6.1	Secured Storage	Dave Hunkele	01/11/13 07:34	Retrieve from Storage
JB25553-6.1	Dave Hunkele	Secured Staging Area	01/11/13 07:35	Return to Storage
JB25553-6.1	Secured Staging Area	Cristina Sinanan	01/11/13 08:14	Retrieve from Storage
JB25553-6.1	Cristina Sinanan	Secured Storage	01/11/13 10:50	Return to Storage
JB25553-6.1	Tony Esposito		02/08/13 14:30	Disposed
JB25553-6.1.1	Rebecca Krug	Organics Prep	01/07/13 08:01	Extract from JB25553-6.1
JB25553-6.1.1	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-6.1
JB25553-6.1.1	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-6.1.1	Extract Storage		02/18/13 09:00	Disposed
JB25553-6.1.2	Rebecca Krug	Organics Prep	01/07/13 08:02	Extract from JB25553-6.1
JB25553-6.1.2	Organics Prep	Rebecca Krug	01/07/13 15:05	Extract from JB25553-6.1
JB25553-6.1.2	Rebecca Krug	Extract Storage	01/07/13 15:05	Return to Storage
JB25553-6.1.2	Extract Storage	Husam Qasem	01/08/13 12:43	Retrieve from Storage
JB25553-6.1.2	Husam Qasem	GC5G	01/08/13 12:43	Load on Instrument
JB25553-6.1.2	GC5G	Husam Qasem	01/09/13 09:57	Unload from Instrument
JB25553-6.1.2	Husam Qasem	Extract Freezer	01/09/13 09:57	Return to Storage
JB25553-6.1.2	Extract Freezer		02/18/13 09:00	Disposed
JB25553-6.1.3	Rebecca Krug	Nida Saleem	01/07/13 09:29	Aliquot from JB25553-6.1
JB25553-6.1.3	Nida Saleem		01/07/13 10:31	Disposed
JB25553-6.1.4	Nida Saleem	Metals Digestion	01/07/13 10:06	Digestate from JB25553-6.1.3
JB25553-6.1.4	Metals Digestion	Nida Saleem	01/07/13 10:06	Digestate from JB25553-6.1.3

Accutest Internal Chain of Custody

Job Number: JB25553
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 01/04/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB25553-6.1.4	Nida Saleem	Metals Digestate Storage	01/07/13 10:06	Return to Storage
JB25553-6.1.4	Metals Digestate Storage		03/18/13 09:00	Disposed
JB25553-6.1.5	Max Ponce	Organics Prep	01/07/13 15:08	Extract from JB25553-6.1
JB25553-6.1.5	Organics Prep	Max Ponce	01/08/13 00:24	Extract from JB25553-6.1
JB25553-6.1.5	Max Ponce	Extract Storage	01/08/13 00:24	Return to Storage
JB25553-6.1.5	Extract Storage	Katelynn Henrich	01/09/13 11:34	Retrieve from Storage
JB25553-6.1.5	Katelynn Henrich	GCMS3P	01/09/13 11:34	Load on Instrument
JB25553-6.1.5	GCMS3P	Olga Azarihn	01/09/13 20:05	Unload from Instrument
JB25553-6.1.5	Olga Azarihn	Extract Freezer	01/09/13 20:05	Return to Storage
JB25553-6.1.5	Extract Freezer		02/18/13 09:00	Disposed
JB25553-6.3	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-6.3	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-6.3	Tony Esposito		02/08/13 14:30	Disposed
JB25553-6.4	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-6.4	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-6.4	Secured Storage	Oksana Treglazova	01/08/13 13:15	Retrieve from Storage
JB25553-6.4	Oksana Treglazova	GCMSA	01/08/13 13:15	Load on Instrument
JB25553-6.4	GCMSA	Oksana Treglazova	01/10/13 11:20	Unload from Instrument
JB25553-6.4	Oksana Treglazova	Secured Storage	01/10/13 11:20	Return to Storage
JB25553-6.4	Tony Esposito		02/08/13 14:30	Disposed
JB25553-6.5	Secured Storage	Frank Zhu	01/05/13 06:55	Retrieve from Storage
JB25553-6.5	Frank Zhu	Secured Storage	01/05/13 10:03	Return to Storage
JB25553-6.5	Tony Esposito		02/08/13 14:30	Disposed
JB25553-8.1	Secured Storage	Tamika Yvonne Ginn	01/08/13 16:11	Retrieve from Storage
JB25553-8.1	Tamika Yvonne Ginn	GCMS4B	01/08/13 16:11	Load on Instrument
JB25553-8.1	GCMS4B	Tamika Yvonne Ginn	01/09/13 12:19	Unload from Instrument
JB25553-8.1	Tamika Yvonne Ginn	Secured Storage	01/09/13 12:19	Return to Storage
JB25553-8.1	Tony Esposito		02/08/13 14:30	Disposed

New Jersey
ACCUTEST LABORATORIES

04/22/14

Technical Report for

Langan Engineering & Environmental

508 West 24th Street, Manhattan, NY

100242701

Accutest Job Number: JB15113

Sampling Date: 08/29/12

Report to:

Langan Engineering & Environmental

aforsburg@Langan.com

ATTN: Amanda Forsburg

Total number of pages in report: **332**

NELAP ACCREDITED TNI LABORATORY

Nancy T. Cole
Nancy Cole
Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

Langan Engineering & Environmental

Job No: JB15113

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB15113-1	08/29/12	08:10	CBM	08/30/12	SO	Soil	043-PE 6A-0.5'-1'
JB15113-2	08/29/12	08:20	CBM	08/30/12	SO	Soil	044-PE 6B-1.5'-2'
JB15113-3	08/29/12	09:45	CBM	08/30/12	SO	Soil	045-PE 7A-0.5'-1'
JB15113-4	08/29/12	10:00	CBM	08/30/12	SO	Soil	046-PE 7B-1.5'-2'
JB15113-5	08/29/12	10:25	CBM	08/30/12	AQ	Field Blank Soil	047 FB-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Langan Engineering & Environmental	**Job No**	JB15113
Site:	508 West 24th Street, Manhattan, NY	**Report Date**	9/13/2012 7:57:35 AM

On 08/30/2012, 4 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. 2 Samples are on Hold per Client's request. 2 Samples and 1 Field Blank were analyzed. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15113 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V2B4480

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB14853-1MS, JB14853-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** VY5399

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB15155-1MS, JB15155-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1-Dichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Chloroethane, 1,1-Dichloroethane, 1,1,1-Trichloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1-Dichloroethane, Chloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethene are outside control limits. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP59482

- All samples were extracted within the recommended method holding time.
- Sample(s) JB15128-1AMS, JB15128-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for 1,1'-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, Acenaphthene, Acenaphthylene, Anthracene, Atrazine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, bis(2-Chloroethoxy)methane, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Chrysene, Di-n-butyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Dibenzofuran, Diethyl phthalate, Dimethyl phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits for sample OP59482-MSD. Analytical precision exceeds standard laboratory control limits.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP59496

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15014-1MS, JB15014-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4,4'-DDD, alpha-Chlordane, beta-BHC, Endrin, Heptachlor, Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 4,4'-DDD, alpha-Chlordane, delta-BHC, Endosulfan-I, Endrin, Endrin ketone, Heptachlor, Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Sample(s) JB15113-3, OP59484-MS, OP59484-MSD, OP59496-MS, OP59496-MSD have surrogates outside control limits. Outside control limits due to matrix interference.
- OP59496-MS for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- OP59496-MSD for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** OP59484

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15128-2AMS, JB15128-2AMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Sample(s) JB15113-3, OP59484-MS, OP59484-MSD, OP59496-MS, OP59496-MSD have surrogates outside control limits. Outside control limits due to matrix interference.
- JB15113-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP59484-MS for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP59484-MSD for Decachlorobiphenyl: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP59495

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15106-1MS, JB15106-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP59485

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15128-5AMS, JB15128-5AMSD were used as the QC samples indicated.
- Sample(s) OP59485-MS, OP59485-MSD have surrogates outside control limits. Outside control limits due to matrix interference.
- OP59485-MS for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP59485-MSD for Decachlorobiphenyl: Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO	**Batch ID:** MP66432

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15113-3MS, JB15113-3MSD, JB15113-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Lead, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Iron, Potassium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MS/MSD for Lead, Manganese, Zinc are outside control limits for sample MP66432-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Cadmium, Selenium are outside control limits for sample MP66432-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP66432-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- MP66432-SD1 for Cobalt: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix: SO	**Batch ID:** MP66433

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15076-1MS, JB15076-1MSD were used as the QC samples for metals.

Wet Chemistry By Method SM18 2540G

Matrix: SO	**Batch ID:** GN71427

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB15113
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 08/29/12

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15113-1	**043-PE 6A-0.5'-1'**					
Chloroform		0.29 J	4.5	0.074	ug/kg	SW846 8260B
Toluene		0.35 J	0.90	0.094	ug/kg	SW846 8260B
Dimethyl phthalate		52.2 J	69	12	ug/kg	SW846 8270D
Aluminum		7540	58		mg/kg	SW846 6010C
Arsenic		3.2	2.3		mg/kg	SW846 6010C
Barium		51.9	23		mg/kg	SW846 6010C
Beryllium		0.43	0.23		mg/kg	SW846 6010C
Calcium		2290	580		mg/kg	SW846 6010C
Chromium		15.3	1.2		mg/kg	SW846 6010C
Copper		15.2	2.9		mg/kg	SW846 6010C
Iron		13800	58		mg/kg	SW846 6010C
Lead		23.1	2.3		mg/kg	SW846 6010C
Magnesium		2760	580		mg/kg	SW846 6010C
Manganese		363	1.7		mg/kg	SW846 6010C
Nickel		17.0	4.6		mg/kg	SW846 6010C
Potassium		1250	1200		mg/kg	SW846 6010C
Vanadium		16.9	5.8		mg/kg	SW846 6010C
Zinc		25.1	2.3		mg/kg	SW846 6010C
JB15113-3	**045-PE 7A-0.5'-1'**					
Chloroform		0.35 J	5.4	0.089	ug/kg	SW846 8260B
Toluene		0.35 J	1.1	0.11	ug/kg	SW846 8260B
Acenaphthene		18.8 J	35	10	ug/kg	SW846 8270D
Acenaphthylene		14.3 J	35	11	ug/kg	SW846 8270D
Anthracene		67.4	35	12	ug/kg	SW846 8270D
Benzo(a)anthracene		273	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		274	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		278	35	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		194	35	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		181	35	13	ug/kg	SW846 8270D
Carbazole		20.0 J	70	16	ug/kg	SW846 8270D
Chrysene		294	35	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		47.2	35	12	ug/kg	SW846 8270D
Dimethyl phthalate		40.9 J	70	12	ug/kg	SW846 8270D
Fluoranthene		581	35	15	ug/kg	SW846 8270D
Fluorene		14.4 J	35	11	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		165	35	12	ug/kg	SW846 8270D
Phenanthrene		297	35	16	ug/kg	SW846 8270D
Pyrene		546	35	13	ug/kg	SW846 8270D
4,4'-DDE		1.5	0.69	0.41	ug/kg	SW846 8081B
4,4'-DDT		6.3	0.69	0.51	ug/kg	SW846 8081B
Aluminum		4460	53		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB15113
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 08/29/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic		6.5	2.1		mg/kg	SW846 6010C
Barium		40.9	21		mg/kg	SW846 6010C
Beryllium		0.23	0.21		mg/kg	SW846 6010C
Calcium		59600	530		mg/kg	SW846 6010C
Chromium		10	1.1		mg/kg	SW846 6010C
Copper		17.5	2.6		mg/kg	SW846 6010C
Iron		8450	53		mg/kg	SW846 6010C
Lead		122	2.1		mg/kg	SW846 6010C
Magnesium		3150	530		mg/kg	SW846 6010C
Manganese		161	1.6		mg/kg	SW846 6010C
Mercury		0.18	0.036		mg/kg	SW846 7471B
Nickel		14.1	4.2		mg/kg	SW846 6010C
Potassium		1460	1100		mg/kg	SW846 6010C
Vanadium		13.2	5.3		mg/kg	SW846 6010C
Zinc		70.2	2.1		mg/kg	SW846 6010C

JB15113-5 **047 FB-1**

No hits reported in this sample.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y125718.D	1	09/01/12	RS	08/31/12 07:00	n/a	VY5399
Run #2							

	Initial Weight
Run #1	6.1 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.0	1.5	ug/kg	
71-43-2	Benzene	ND	0.90	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	0.24	ug/kg	
75-27-4	Bromodichloromethane	ND	4.5	0.094	ug/kg	
75-25-2	Bromoform	ND	4.5	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.5	0.25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.0	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	4.5	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.5	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.5	0.097	ug/kg	
75-00-3	Chloroethane	ND	4.5	0.20	ug/kg	
67-66-3	Chloroform	0.29	4.5	0.074	ug/kg	J
74-87-3	Chloromethane	ND	4.5	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.5	0.11	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.0	0.80	ug/kg	
124-48-1	Dibromochloromethane	ND	4.5	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.90	0.11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.5	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.5	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.5	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.5	0.20	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.5	0.12	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.90	0.12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.5	0.23	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.5	0.16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.5	0.21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.5	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.5	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.5	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	110	53	ug/kg	
100-41-4	Ethylbenzene	ND	0.90	0.24	ug/kg	
76-13-1	Freon 113	ND	4.5	0.39	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.5	0.56	ug/kg	
98-82-8	Isopropylbenzene	ND	4.5	0.067	ug/kg	
79-20-9	Methyl Acetate	ND	4.5	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	4.5	0.15	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.90	0.21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.5	0.67	ug/kg	
75-09-2	Methylene chloride	ND	4.5	1.1	ug/kg	
100-42-5	Styrene	ND	4.5	0.082	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.5	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.5	0.15	ug/kg	
108-88-3	Toluene	0.35	0.90	0.094	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.12	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.5	0.095	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.5	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.5	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.5	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	4.5	0.13	ug/kg	
	m,p-Xylene	ND	0.90	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.90	0.12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	94%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M45995.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	40	ug/kg	
	3&4-Methylphenol	ND	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	69	16	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	ND	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	52.2	69	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	31	ug/kg	
206-44-0	Fluoranthene	ND	35	15	ug/kg	
86-73-7	Fluorene	ND	35	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	ND	35	16	ug/kg	
129-00-0	Pyrene	ND	35	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		21-116%
4165-62-2	Phenol-d5	78%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-136%
4165-60-0	Nitrobenzene-d5	76%		21-122%
321-60-8	2-Fluorobiphenyl	66%		30-117%
1718-51-0	Terphenyl-d14	83%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.27	200	ug/kg	J
	system artifact/aldol-condensation	1.55	550	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G83100.D	1	09/05/12	DS	08/31/12	OP59484	G1G2757
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.64	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.64	0.48	ug/kg	
319-85-7	beta-BHC	ND	0.64	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.64	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.64	0.29	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.64	0.42	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.64	0.33	ug/kg	
60-57-1	Dieldrin	ND	0.64	0.50	ug/kg	
72-54-8	4,4'-DDD	ND	0.64	0.33	ug/kg	
72-55-9	4,4'-DDE	ND	0.64	0.38	ug/kg	
50-29-3	4,4'-DDT	ND	0.64	0.47	ug/kg	
72-20-8	Endrin	ND	0.64	0.33	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.64	0.58	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.64	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	0.64	0.31	ug/kg	
33213-65-9	Endosulfan-II	ND	0.64	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.64	0.39	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.64	0.32	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.45	ug/kg	
53494-70-5	Endrin ketone	ND	0.64	0.42	ug/kg	
8001-35-2	Toxaphene	ND	16	8.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		23-137%
877-09-8	Tetrachloro-m-xylene	84%		23-137%
2051-24-3	Decachlorobiphenyl	103%		22-160%
2051-24-3	Decachlorobiphenyl	98%		22-160%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.3
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112202.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		22-141%
877-09-8	Tetrachloro-m-xylene	99%		22-141%
2051-24-3	Decachlorobiphenyl	84%		18-163%
2051-24-3	Decachlorobiphenyl	82%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	043-PE 6A-0.5'-1'		
Lab Sample ID:	JB15113-1	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
		Percent Solids:	91.3
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7540	58	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.2	2.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Barium	51.9	23	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.43	0.23	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Calcium	2290	580	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Chromium	15.3	1.2	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Copper	15.2	2.9	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Iron	13800	58	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Lead	23.1	2.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Magnesium	2760	580	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Manganese	363	1.7	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	09/04/12	09/04/12	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	17.0	4.6	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Potassium	1250	1200	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Vanadium	16.9	5.8	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Zinc	25.1	2.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA29316
(2) Instrument QC Batch: MA29320
(3) Prep QC Batch: MP66432
(4) Prep QC Batch: MP66433

RL = Reporting Limit

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y125720.D	1	09/01/12	RS	08/31/12 07:00	n/a	VY5399
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.8	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	0.11	ug/kg	
75-25-2	Bromoform	ND	5.4	0.16	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.29	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.25	ug/kg	
67-66-3	Chloroform	0.35	5.4	0.089	ug/kg	J
74-87-3	Chloromethane	ND	5.4	0.20	ug/kg	
110-82-7	Cyclohexane	ND	5.4	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.96	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.4	0.28	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.4	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.4	0.26	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	140	64	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	ND	5.4	0.46	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.4	0.67	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	0.080	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.4	0.18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.81	ug/kg	
75-09-2	Methylene chloride	ND	5.4	1.4	ug/kg	
100-42-5	Styrene	ND	5.4	0.099	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.4	0.19	ug/kg	
108-88-3	Toluene	0.35	1.1	0.11	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.4	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.32	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.19	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	94%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M45997.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
Run #2							

	Initial Weight	Final Volume
Run #1	32.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	42	ug/kg	
95-48-7	2-Methylphenol	ND	70	40	ug/kg	
	3&4-Methylphenol	ND	70	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	59	ug/kg	
108-95-2	Phenol	ND	70	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	18.8	35	10	ug/kg	J
208-96-8	Acenaphthylene	14.3	35	11	ug/kg	J
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	67.4	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	273	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	274	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	278	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	194	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	181	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	20.0	70	16	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	294	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	47.2	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	40.9	70	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	581	35	15	ug/kg	
86-73-7	Fluorene	14.4	35	11	ug/kg	J
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	165	35	12	ug/kg	
78-59-1	Isophorone	ND	70	9.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	297	35	16	ug/kg	
129-00-0	Pyrene	546	35	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		21-116%
4165-62-2	Phenol-d5	70%		19-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68%		24-136%
4165-60-0	Nitrobenzene-d5	71%		21-122%
321-60-8	2-Fluorobiphenyl	64%		30-117%
1718-51-0	Terphenyl-d14	72%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.27	170	ug/kg	J
	system artifact/aldol-condensation	1.56	450	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8081B SW846 3546	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G22352.D	1	09/05/12	DS	08/31/12	OP59484	G4G575
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.52	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.45	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.54	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.36	ug/kg	
72-55-9	4,4'-DDE	1.5	0.69	0.41	ug/kg	
50-29-3	4,4'-DDT	6.3	0.69	0.51	ug/kg	
72-20-8	Endrin	ND	0.69	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.66	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.43	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.49	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.45	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		23-137%
877-09-8	Tetrachloro-m-xylene	85%		23-137%
2051-24-3	Decachlorobiphenyl	247% [a]		22-160%
2051-24-3	Decachlorobiphenyl	216% [a]		22-160%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.0
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112204.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		22-141%
877-09-8	Tetrachloro-m-xylene	117%		22-141%
2051-24-3	Decachlorobiphenyl	62%		18-163%
2051-24-3	Decachlorobiphenyl	84%		18-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	045-PE 7A-0.5'-1'		
Lab Sample ID:	JB15113-3	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
		Percent Solids:	89.0
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4460	53	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Arsenic	6.5	2.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Barium	40.9	21	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.23	0.21	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Calcium	59600	530	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Chromium	10	1.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Copper	17.5	2.6	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Iron	8450	53	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Lead	122	2.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Magnesium	3150	530	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Manganese	161	1.6	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.18	0.036	mg/kg	1	09/04/12	09/04/12	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	14.1	4.2	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Potassium	1460	1100	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Vanadium	13.2	5.3	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]
Zinc	70.2	2.1	mg/kg	1	09/04/12	09/05/12	CS	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA29316
(2) Instrument QC Batch: MA29320
(3) Prep QC Batch: MP66432
(4) Prep QC Batch: MP66433

RL = Reporting Limit

Report of Analysis

Client Sample ID:	047 FB-1		
Lab Sample ID:	JB15113-5	**Date Sampled:**	08/29/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B99225.D	1	08/31/12	DR	n/a	n/a	V2B4480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	047 FB-1		
Lab Sample ID:	JB15113-5	**Date Sampled:**	08/29/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		81-121%
17060-07-0	1,2-Dichloroethane-D4	104%		74-127%
2037-26-5	Toluene-D8	113%		80-122%
460-00-4	4-Bromofluorobenzene	103%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	047 FB-1		
Lab Sample ID:	JB15113-5	**Date Sampled:**	08/29/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4479.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109
Run #2							

	Initial Volume	Final Volume
Run #1	550 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.018	0.017	ug/l	
319-84-6	alpha-BHC	ND	0.018	0.0072	ug/l	
319-85-7	beta-BHC	ND	0.018	0.0068	ug/l	
319-86-8	delta-BHC	ND	0.018	0.011	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.018	0.0075	ug/l	
5103-71-9	alpha-Chlordane	ND	0.018	0.0090	ug/l	
5103-74-2	gamma-Chlordane	ND	0.018	0.0042	ug/l	
60-57-1	Dieldrin	ND	0.018	0.0060	ug/l	
72-54-8	4,4'-DDD	ND	0.018	0.0066	ug/l	
72-55-9	4,4'-DDE	ND	0.018	0.0054	ug/l	
50-29-3	4,4'-DDT	ND	0.018	0.011	ug/l	
72-20-8	Endrin	ND	0.018	0.012	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.018	0.012	ug/l	
7421-93-4	Endrin aldehyde	ND	0.018	0.0053	ug/l	
53494-70-5	Endrin ketone	ND	0.018	0.0074	ug/l	
959-98-8	Endosulfan-I	ND	0.018	0.0055	ug/l	
33213-65-9	Endosulfan-II	ND	0.018	0.0051	ug/l	
76-44-8	Heptachlor	ND	0.018	0.015	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.018	0.0069	ug/l	
72-43-5	Methoxychlor	ND	0.036	0.015	ug/l	
8001-35-2	Toxaphene	ND	0.45	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		26-145%
877-09-8	Tetrachloro-m-xylene	110%		26-145%
2051-24-3	Decachlorobiphenyl	67%		10-141%
2051-24-3	Decachlorobiphenyl	83%		10-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	047 FB-1		
Lab Sample ID:	JB15113-5	**Date Sampled:**	08/29/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX123508.D	1	09/05/12	HQ	08/31/12	OP59495	GXX4458
Run #2							

	Initial Volume	Final Volume
Run #1	550 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.91	0.23	ug/l	
11104-28-2	Aroclor 1221	ND	0.91	0.49	ug/l	
11141-16-5	Aroclor 1232	ND	0.91	0.70	ug/l	
53469-21-9	Aroclor 1242	ND	0.91	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.91	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.91	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.91	0.38	ug/l	
11100-14-4	Aroclor 1268	ND	0.91	0.24	ug/l	
37324-23-5	Aroclor 1262	ND	0.91	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		27-144%
877-09-8	Tetrachloro-m-xylene	85%		27-144%
2051-24-3	Decachlorobiphenyl	50%		10-139%
2051-24-3	Decachlorobiphenyl	51%		10-139%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

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CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
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PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB15113

Client / Reporting Information

Company Name: Langan Eng + Env Svcs
Street Address: 619 River Drive
City / State / Zip: Elmwood Park NJ 07407
Project Contact: Chris McMahon
E-mail: cmcmahon@langan.com
Phone #: 201-218-2339
Fax #:
Sampler(s) Name(s): Christie B Madden 551-497-3336
Phone #:

Project Information

Project Name: 508 W 24th St
Street: 508 W 24th St.
City / State: Manhattan NY
Project #: 100242701
Client Purchase Order #:
Project Manager: Tammy McCloskey
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	%	VOCs	SVOCs	Pesticides	PCBs	METALS						LAB USE ONLY
-1	043 SS1A 0.5'-0.83'	—	8/29/12	0810	CBM	SO	4					1			3	4	X	X	X	X	X						
-2	044 SS1B 1.5'-2'	—	8/29/12	0820	CBM	SO	4					1			3	4	X	X	X	X	X						HP31
-3	045 SS2A 0.5'-1'	—	8/29/12	945	CBM	SO	4					1			3	4	X	X	X	X	X						14A5
-4	046 SS2B 1.5'-2'	—	8/29/12	1000	CBM	SO	4					1			3	4	X	X	X	X	X						4012
-5	047 FB-1	1 —	8/29/12	1025	CBM	FB	7	2		1		4				7	X	X	X	X	X						
			CB 8/29/12																								48M
																											AM013
																											2173

Christie B Madden

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☒ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULL.T1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Electronic copies only please!

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Christie B Madden	8-29-12	1 Basement Room 1624	2 [signature]	8/30/12	2 [signature] 8-30-12 1020
3 [signature] 8-30-12	1525	3 [signature]	4		4
5		5			

Custody Seal # 70 ☐ Intact ☐ Not intact

Preserved where applicable ☒ On Ice ☒ Cooler Temp. 4°C

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5.1 5

JB15113: Chain of Custody
Page 1 of 6

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15113 **Client:** **Project:**

Date / Time Received: 8/30/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4/4); 0

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB15113: Chain of Custody
Page 2 of 6

Job Change Order: JB15113_8/31/2012

Requested Date:	8/31/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	TM	**TAT (Days):**	3

Sample #:
JB15113-5

Change: cancel SVOC and metals analysis

047 FB-1

Above Changes Per: Amanda Forsburg **Date:** 8/31/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

5.1 5

JB15113: Chain of Custody
Page 3 of 6

Job Change Order: JB15113_8/31/2012

Requested Date:	8/31/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	TM	**TAT (Days):**	3

Sample #: JB15113-1 — **Change:** change sample ID to 043-PE 6A-0.5'-1'

043 SS1A 0.5'-0.83'

Sample #: JB15113-2 — **Change:** change sample ID to 044-PE-6B 1.5'-2', cancel VO & Metals analysis, change SVOC, PEST & PCB to extract & hold

044 SS1B 1.5'-2'

Sample #: JB15113-3 — **Change:** change sample ID to 045-PE-7A 0.5'-1'

045 SS12 0.5'-1'

Sample #: JB15113-4 — **Change:** change sample ID to 046-PE-7B 1.5'-2', cancel VO & Metals analysis, change SVOC, PEST & PCB to extract & Hold

046 SS2B 1.5'-2'

Above Changes Per: Amanda Forsburg / Chris McMahon **Date:** 8/31/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

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CHAIN OF CUSTODY

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PAGE 1 OF 1

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB15113 RENSED

Client / Reporting Information

Company Name: Langan Eng + Env Svcs
Street Address: 619 River Drive
City, State, Zip: Elmwood Park NJ 07407
Project Contact: Chris McMahon cmcmahon@langan.com
Phone #: 201-218-2339
Fax #:
Sampler(s) Name(s): Christine B Madsen
Phone #: 551-497-3336

Project Information

Project Name: 508 W 24th St
Street: 508 W 24th St.
City: Manhattan
State: NY
Project #: 100242701
Client Purchase Order #:
Project Manager: Tammy McCloskey
Billing Information (if different from Report to)
Company Name:
Street Address:
City, State, Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WIP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	5035	VOCs	SVOCs	Pesticides	PCBs	METALS						LAB USE ONLY
PE-6A -1	043 ~~SS1A~~ 0.5'-~~0.63'~~	—	8/29/12	0810	CBM	SO	4					1			3	4	X	X	X	X	X						
PE-6B -2	044 ~~SS1B~~ 1.5'-2'	—	8/29/12	0820	CBM	SO	4					1			3	4	X	X	X	X	X						1831
PE-7A -3	045 ~~SS2A~~ 0.5'-1'	—	8/29/12	945	CBM	SO	4					1			3	4	X	X	X	X	X						1445
PE-7B -4	046 ~~SS2B~~ 1.5'-2'	—	8/29/12	1000	CBM	SO	4					1			3	4	X	X	X	X	X						1012
-5	047 FB-1	1 —	8/29/12	1025	CBM	FB	7	2		1		4				7	X	~~X~~	~~X~~	~~X~~	~~X~~						
			CB ~~8/29/12~~																								48m
																											AMBIS
																											2173

Christine B Madsen

Matrix OK Cooler

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day RUSH
- ☐ 6 Day RUSH
- ☒ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labilink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Electronic copies only please!
- please run FB-1 for VOCs only
- please HOLD samples PE-6B + PE-7B

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Christine B Madsen	8-29-12	1 Basement Room 1624	2 [signature]	8/30/12	2 [signature] 8-30-12 1020
3 [signature] 8-30-12	1530	3 [signature]	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 70 ☐ Intact ☐ Not intact	Preserved where applicable ☒	On Ice ☒ Cooler Temp. 4°C

1A

5.1 5

Job Change Order: JB15113_9/6/2012

Requested Date:	9/6/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	MV	**TAT (Days):**	3

Sample #:
JB15113-4

Change: Off hold - Log for V8260TCL11+, MTAL, AB8270TCL11+AO, P8081PESTTCLAO, P8082PCB11AO

046-PE 7B-1.5'-2'

Above Changes Per: Christine Madsen **Date:** 9/6/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB15113

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB15113-1 Collected: 29-AUG-12 08:10 By: CBM Received: 30-AUG-12 By: TH 043-PE 6A-0.5'-1'						
JB15113-1	SM18 2540G	31-AUG-12 20:40	MH			%SOL
JB15113-1	SW846 8260B	01-SEP-12 03:03	RS			V8260TCL11 +
JB15113-1	SW846 8270D	01-SEP-12 12:34	KLS	31-AUG-12	MP	AB8270TCL11 +
JB15113-1	SW846 7471B	04-SEP-12 13:02	JW	04-SEP-12	JW	HG
JB15113-1	SW846 8082A	04-SEP-12 22:00	GAD	31-AUG-12	AC	P8082PCB11AO
JB15113-1	SW846 6010C	05-SEP-12 04:08	CS	04-SEP-12	GM	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB15113-1	SW846 8081B	05-SEP-12 09:54	DS	31-AUG-12	AC	P8081PESTTCL
JB15113-3 Collected: 29-AUG-12 09:45 By: CBM Received: 30-AUG-12 By: TH 045-PE 7A-0.5'-1'						
JB15113-3	SM18 2540G	31-AUG-12 20:40	MH			%SOL
JB15113-3	SW846 8260B	01-SEP-12 04:02	RS			V8260TCL11 +
JB15113-3	SW846 8270D	01-SEP-12 13:23	KLS	31-AUG-12	MP	AB8270TCL11 +
JB15113-3	SW846 7471B	04-SEP-12 13:03	JW	04-SEP-12	JW	HG
JB15113-3	SW846 8082A	04-SEP-12 22:48	GAD	31-AUG-12	AC	P8082PCB11AO
JB15113-3	SW846 6010C	05-SEP-12 02:21	CS	04-SEP-12	GM	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB15113-3	SW846 8081B	05-SEP-12 12:34	DS	31-AUG-12	AC	P8081PESTTCL
JB15113-5 Collected: 29-AUG-12 10:25 By: CBM Received: 30-AUG-12 By: TH 047 FB-1						
JB15113-5	SW846 8260B	31-AUG-12 17:16	DR			V8260TCL11 +
JB15113-5	SW846 8081B	05-SEP-12 11:20	HQ	31-AUG-12	JH	P8081PESTTCL
JB15113-5	SW846 8082A	05-SEP-12 12:59	HQ	31-AUG-12	JH	P8082PCB11AO

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-1.1	Secured Storage	Jamie Farrell	08/31/12 11:06	Retrieve from Storage
JB15113-1.1	Jamie Farrell	Allan Chung-yew	08/31/12 17:05	Custody Transfer
JB15113-1.1	Allan Chung-yew	Minhaj Hashmi	08/31/12 19:10	Custody Transfer
JB15113-1.1	Minhaj Hashmi	Secured Storage	08/31/12 21:17	Return to Storage
JB15113-1.1	Secured Storage	Adam Scott	09/04/12 07:02	Retrieve from Storage
JB15113-1.1	Adam Scott	Secured Staging Area	09/04/12 07:03	Return to Storage
JB15113-1.1	Secured Staging Area	Jieyu Wang	09/04/12 08:03	Retrieve from Storage
JB15113-1.1	Jieyu Wang	Secured Storage	09/04/12 16:21	Return to Storage
JB15113-1.1	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-1.1.1	Jamie Farrell	Organics Prep	08/31/12 11:17	Extract from JB15113-1.1
JB15113-1.1.1	Organics Prep	Max Ponce	08/31/12 23:54	Extract from JB15113-1.1
JB15113-1.1.1	Max Ponce	Extract Storage	08/31/12 23:55	Return to Storage
JB15113-1.1.1	Extract Storage	Kristi Schollenberger	09/01/12 14:22	Retrieve from Storage
JB15113-1.1.1	Kristi Schollenberger	GCMS2M	09/01/12 14:22	Load on Instrument
JB15113-1.1.1	GCMS2M	Olga Azarihn	09/04/12 09:59	Unload from Instrument
JB15113-1.1.1	Olga Azarihn	Extract Freezer	09/04/12 09:59	Return to Storage
JB15113-1.1.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-1.1.2	Jamie Farrell	Organics Prep	08/31/12 11:23	Extract from JB15113-1.1
JB15113-1.1.2	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-1.1
JB15113-1.1.2	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-1.1.2	Extract Storage	Douglas Siano	09/05/12 09:35	Retrieve from Storage
JB15113-1.1.2	Douglas Siano	GC1G	09/05/12 09:35	Load on Instrument
JB15113-1.1.2	GC1G	Douglas Siano	10/22/12 10:53	Unload from Instrument
JB15113-1.1.2	Douglas Siano	Extract Freezer	10/22/12 10:55	Return to Storage
JB15113-1.1.2	Extract Freezer		10/23/12 09:00	Disposed
JB15113-1.1.3	Jamie Farrell	Organics Prep	08/31/12 13:33	Extract from JB15113-1.1
JB15113-1.1.3	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-1.1
JB15113-1.1.3	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-1.1.3	Extract Storage	Gwendolyn Dymowski	09/04/12 15:54	Retrieve from Storage
JB15113-1.1.3	Gwendolyn Dymowski	GCEF	09/04/12 15:54	Load on Instrument
JB15113-1.1.3	GCEF	Gwendolyn Dymowski	09/05/12 07:58	Unload from Instrument
JB15113-1.1.3	Gwendolyn Dymowski	Extract Freezer	09/05/12 07:58	Return to Storage
JB15113-1.1.3	Extract Freezer		10/11/12 09:00	Disposed
JB15113-1.1.4	Jieyu Wang	Nida Saleem	09/04/12 09:50	Aliquot from JB15113-1.1
JB15113-1.1.4	Nida Saleem		09/04/12 16:08	Disposed
JB15113-1.1.5	Nida Saleem	Metals Digestion	09/04/12 10:12	Digestate from JB15113-1.1.4
JB15113-1.1.5	Metals Digestion	Nida Saleem	09/04/12 10:12	Digestate from JB15113-1.1.4
JB15113-1.1.5	Nida Saleem	Metals Digestate Storage	09/04/12 10:12	Return to Storage
JB15113-1.1.5	Metals Digestate Storage		11/12/12 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-1.3	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-1.3	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-1.3	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-1.4	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-1.4	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-1.4	Secured Storage	Robert Szot	08/31/12 18:09	Retrieve from Storage
JB15113-1.4	Robert Szot	GCMSY	08/31/12 18:09	Load on Instrument
JB15113-1.4	GCMSY	Robert Szot	09/04/12 09:17	Unload from Instrument
JB15113-1.4	Robert Szot		09/04/12 09:17	Depleted
JB15113-1.5	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-1.5	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-1.5	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-2.1	Secured Storage	Jamie Farrell	08/31/12 11:06	Retrieve from Storage
JB15113-2.1	Jamie Farrell	Allan Chung-yew	08/31/12 17:05	Custody Transfer
JB15113-2.1	Allan Chung-yew	Minhaj Hashmi	08/31/12 19:10	Custody Transfer
JB15113-2.1	Minhaj Hashmi	Secured Storage	08/31/12 21:17	Return to Storage
JB15113-2.1	Secured Storage	Khusbu Shah	09/01/12 09:06	Retrieve from Storage
JB15113-2.1	Khusbu Shah	Secured Storage	09/01/12 17:37	Return to Storage
JB15113-2.1	Secured Storage	Joseph Ravino	09/05/12 08:13	Retrieve from Storage
JB15113-2.1	Joseph Ravino	Secured Storage	09/05/12 15:02	Return to Storage
JB15113-2.1	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-2.1.1	Jamie Farrell	Organics Prep	08/31/12 11:17	Extract from JB15113-2.1
JB15113-2.1.1	Organics Prep	Max Ponce	08/31/12 23:54	Extract from JB15113-2.1
JB15113-2.1.1	Max Ponce	Extract Storage	08/31/12 23:55	Return to Storage
JB15113-2.1.1	Extract Storage	Kristi Schollenberger	09/01/12 14:22	Retrieve from Storage
JB15113-2.1.1	Kristi Schollenberger	GCMS2M	09/01/12 14:22	Load on Instrument
JB15113-2.1.1	GCMS2M	Olga Azarihn	09/04/12 09:59	Unload from Instrument
JB15113-2.1.1	Olga Azarihn	Extract Freezer	09/04/12 09:59	Return to Storage
JB15113-2.1.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-2.1.2	Jamie Farrell	Organics Prep	08/31/12 11:23	Extract from JB15113-2.1
JB15113-2.1.2	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-2.1
JB15113-2.1.2	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-2.1.2	Extract Storage		10/11/12 09:00	Disposed
JB15113-2.1.3	Jamie Farrell	Organics Prep	08/31/12 13:33	Extract from JB15113-2.1
JB15113-2.1.3	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-2.1
JB15113-2.1.3	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-2.1.3	Extract Storage	Gwendolyn Dymowski	09/04/12 15:54	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-2.1.3	Gwendolyn Dymowski	GCEF	09/04/12 15:54	Load on Instrument
JB15113-2.1.3	GCEF	Gwendolyn Dymowski	09/05/12 07:58	Unload from Instrument
JB15113-2.1.3	Gwendolyn Dymowski	Extract Freezer	09/05/12 07:58	Return to Storage
JB15113-2.1.3	Extract Freezer		10/11/12 09:00	Disposed
JB15113-2.1.4	Khusbu Shah	Organics Prep	09/01/12 09:22	Extract from JB15113-2.1
JB15113-2.1.4	Organics Prep	Khusbu Shah	09/01/12 17:39	Extract from JB15113-2.1
JB15113-2.1.4	Khusbu Shah	Extract Storage	09/01/12 17:39	Return to Storage
JB15113-2.1.4	Extract Storage	Andrew Lee Smith	09/04/12 15:12	Retrieve from Storage
JB15113-2.1.4	Andrew Lee Smith	GCMS2P	09/04/12 15:13	Load on Instrument
JB15113-2.1.4	GCMS2P	Andrew Lee Smith	09/07/12 10:20	Unload from Instrument
JB15113-2.1.4	Andrew Lee Smith	Extract Freezer	09/07/12 10:20	Return to Storage
JB15113-2.1.4	Extract Freezer		10/12/12 09:00	Disposed
JB15113-2.1.5	Joseph Ravino	Organics Prep	09/05/12 08:17	Extract from JB15113-2.1
JB15113-2.1.5	Organics Prep	Joseph Ravino	09/05/12 11:40	Extract from JB15113-2.1
JB15113-2.1.5	Joseph Ravino	Extract Storage	09/05/12 11:40	Return to Storage
JB15113-2.1.5	Extract Storage		10/16/12 09:00	Disposed
JB15113-2.1.6	Joseph Ravino	Organics Prep	09/05/12 08:20	Extract from JB15113-2.1
JB15113-2.1.6	Organics Prep	Joseph Ravino	09/05/12 11:39	Extract from JB15113-2.1
JB15113-2.1.6	Joseph Ravino	Extract Storage	09/05/12 11:39	Return to Storage
JB15113-2.1.6	Extract Storage		10/16/12 09:00	Disposed
JB15113-2.3	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-2.3	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-2.3	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-2.4	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-2.4	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-2.4	Secured Storage	Robert Szot	08/31/12 18:09	Retrieve from Storage
JB15113-2.4	Robert Szot	GCMSY	08/31/12 18:09	Load on Instrument
JB15113-2.4	GCMSY	Robert Szot	09/04/12 09:17	Unload from Instrument
JB15113-2.4	Robert Szot		09/04/12 09:17	Depleted
JB15113-2.5	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-2.5	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-2.5	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-3.1	Secured Storage	Jamie Farrell	08/31/12 11:06	Retrieve from Storage
JB15113-3.1	Jamie Farrell	Allan Chung-yew	08/31/12 17:05	Custody Transfer
JB15113-3.1	Allan Chung-yew	Minhaj Hashmi	08/31/12 19:10	Custody Transfer
JB15113-3.1	Minhaj Hashmi	Secured Storage	08/31/12 21:17	Return to Storage
JB15113-3.1	Secured Storage	Adam Scott	09/04/12 07:02	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-3.1	Adam Scott	Secured Staging Area	09/04/12 07:03	Return to Storage
JB15113-3.1	Secured Staging Area	Jieyu Wang	09/04/12 08:03	Retrieve from Storage
JB15113-3.1	Jieyu Wang	Secured Storage	09/04/12 16:21	Return to Storage
JB15113-3.1	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-3.1.1	Jamie Farrell	Organics Prep	08/31/12 11:17	Extract from JB15113-3.1
JB15113-3.1.1	Organics Prep	Max Ponce	08/31/12 23:54	Extract from JB15113-3.1
JB15113-3.1.1	Max Ponce	Extract Storage	08/31/12 23:55	Return to Storage
JB15113-3.1.1	Extract Storage	Kristi Schollenberger	09/01/12 14:22	Retrieve from Storage
JB15113-3.1.1	Kristi Schollenberger	GCMS2M	09/01/12 14:22	Load on Instrument
JB15113-3.1.1	GCMS2M	Olga Azarihn	09/04/12 09:59	Unload from Instrument
JB15113-3.1.1	Olga Azarihn	Extract Freezer	09/04/12 09:59	Return to Storage
JB15113-3.1.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-3.1.2	Jamie Farrell	Organics Prep	08/31/12 11:23	Extract from JB15113-3.1
JB15113-3.1.2	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-3.1
JB15113-3.1.2	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-3.1.2	Extract Storage	Douglas Siano	09/05/12 09:35	Retrieve from Storage
JB15113-3.1.2	Douglas Siano	GC1G	09/05/12 09:35	Load on Instrument
JB15113-3.1.2	GC1G	Douglas Siano	09/05/12 10:34	Unload from Instrument
JB15113-3.1.2	Douglas Siano	GC4G	09/05/12 10:34	Load on Instrument
JB15113-3.1.2	GC4G	Owen McKenna	09/05/12 18:20	Unload from Instrument
JB15113-3.1.2	Owen McKenna	Extract Freezer	09/05/12 18:20	Return to Storage
JB15113-3.1.2	Extract Freezer		10/11/12 09:00	Disposed
JB15113-3.1.3	Jamie Farrell	Organics Prep	08/31/12 13:33	Extract from JB15113-3.1
JB15113-3.1.3	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-3.1
JB15113-3.1.3	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-3.1.3	Extract Storage	Gwendolyn Dymowski	09/04/12 15:54	Retrieve from Storage
JB15113-3.1.3	Gwendolyn Dymowski	GCEF	09/04/12 15:54	Load on Instrument
JB15113-3.1.3	GCEF	Gwendolyn Dymowski	09/05/12 07:58	Unload from Instrument
JB15113-3.1.3	Gwendolyn Dymowski	Extract Freezer	09/05/12 07:58	Return to Storage
JB15113-3.1.3	Extract Freezer		10/11/12 09:00	Disposed
JB15113-3.1.4	Jieyu Wang	Nida Saleem	09/04/12 09:50	Aliquot from JB15113-3.1
JB15113-3.1.4	Nida Saleem		09/04/12 16:08	Disposed
JB15113-3.1.5	Nida Saleem	Metals Digestion	09/04/12 10:12	Digestate from JB15113-3.1.4
JB15113-3.1.5	Metals Digestion	Nida Saleem	09/04/12 10:12	Digestate from JB15113-3.1.4
JB15113-3.1.5	Nida Saleem	Metals Digestate Storage	09/04/12 10:12	Return to Storage
JB15113-3.1.5	Metals Digestate Storage		11/12/12 09:00	Disposed
JB15113-3.3	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-3.3	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-3.3	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-3.4	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-3.4	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-3.4	Secured Storage	Robert Szot	08/31/12 18:09	Retrieve from Storage
JB15113-3.4	Robert Szot	GCMSY	08/31/12 18:09	Load on Instrument
JB15113-3.4	GCMSY	Robert Szot	09/04/12 09:17	Unload from Instrument
JB15113-3.4	Robert Szot		09/04/12 09:17	Depleted
JB15113-3.5	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-3.5	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-3.5	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-4.1	Secured Storage	Jamie Farrell	08/31/12 11:06	Retrieve from Storage
JB15113-4.1	Jamie Farrell	Allan Chung-yew	08/31/12 17:05	Custody Transfer
JB15113-4.1	Allan Chung-yew	Minhaj Hashmi	08/31/12 19:10	Custody Transfer
JB15113-4.1	Minhaj Hashmi	Secured Storage	08/31/12 21:17	Return to Storage
JB15113-4.1	Secured Storage	Khusbu Shah	09/01/12 09:06	Retrieve from Storage
JB15113-4.1	Khusbu Shah	Secured Storage	09/01/12 17:37	Return to Storage
JB15113-4.1	Secured Storage	Joseph Ravino	09/05/12 08:13	Retrieve from Storage
JB15113-4.1	Joseph Ravino	Secured Storage	09/05/12 15:02	Return to Storage
JB15113-4.1	Secured Storage	Dave Hunkele	09/07/12 10:36	Retrieve from Storage
JB15113-4.1	Dave Hunkele	Secured Staging Area	09/07/12 10:37	Return to Storage
JB15113-4.1	Secured Staging Area	Krimesh Patel	09/07/12 12:13	Retrieve from Storage
JB15113-4.1	Krimesh Patel	Secured Storage	09/07/12 13:39	Return to Storage
JB15113-4.1	Secured Storage	Brian Racin	09/07/12 14:31	Retrieve from Storage
JB15113-4.1	Brian Racin	Secured Staging Area	09/07/12 14:32	Return to Storage
JB15113-4.1	Secured Staging Area	Minhaj Hashmi	09/07/12 15:07	Retrieve from Storage
JB15113-4.1	Minhaj Hashmi	Michael Bunza	09/07/12 18:40	Custody Transfer
JB15113-4.1	Michael Bunza	Secured Storage	09/07/12 18:53	Return to Storage
JB15113-4.1	Secured Storage	Darshananben Patel	09/10/12 06:19	Retrieve from Storage
JB15113-4.1	Darshananben Patel	Secured Storage	09/10/12 13:48	Return to Storage
JB15113-4.1	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-4.1.1	Jamie Farrell	Organics Prep	08/31/12 11:17	Extract from JB15113-4.1
JB15113-4.1.1	Organics Prep	Max Ponce	08/31/12 23:54	Extract from JB15113-4.1
JB15113-4.1.1	Max Ponce	Extract Storage	08/31/12 23:55	Return to Storage
JB15113-4.1.1	Extract Storage	Kristi Schollenberger	09/01/12 14:22	Retrieve from Storage
JB15113-4.1.1	Kristi Schollenberger	GCMS2M	09/01/12 14:22	Load on Instrument
JB15113-4.1.1	GCMS2M	Olga Azarihn	09/04/12 09:59	Unload from Instrument
JB15113-4.1.1	Olga Azarihn	Extract Freezer	09/04/12 09:59	Return to Storage
JB15113-4.1.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-4.1.2	Jamie Farrell	Organics Prep	08/31/12 11:23	Extract from JB15113-4.1

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-4.1.2	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-4.1
JB15113-4.1.2	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-4.1.2	Extract Storage		10/11/12 09:00	Disposed
JB15113-4.1.3	Jamie Farrell	Organics Prep	08/31/12 13:33	Extract from JB15113-4.1
JB15113-4.1.3	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-4.1
JB15113-4.1.3	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-4.1.3	Extract Storage	Gwendolyn Dymowski	09/04/12 15:54	Retrieve from Storage
JB15113-4.1.3	Gwendolyn Dymowski	GCEF	09/04/12 15:54	Load on Instrument
JB15113-4.1.3	GCEF	Gwendolyn Dymowski	09/05/12 07:58	Unload from Instrument
JB15113-4.1.3	Gwendolyn Dymowski	Extract Freezer	09/05/12 07:58	Return to Storage
JB15113-4.1.3	Extract Freezer		10/11/12 09:00	Disposed
JB15113-4.1.4	Khusbu Shah	Organics Prep	09/01/12 09:22	Extract from JB15113-4.1
JB15113-4.1.4	Organics Prep	Khusbu Shah	09/01/12 17:39	Extract from JB15113-4.1
JB15113-4.1.4	Khusbu Shah	Extract Storage	09/01/12 17:39	Return to Storage
JB15113-4.1.4	Extract Storage	Andrew Lee Smith	09/04/12 15:12	Retrieve from Storage
JB15113-4.1.4	Andrew Lee Smith	GCMS2P	09/04/12 15:13	Load on Instrument
JB15113-4.1.4	GCMS2P	Andrew Lee Smith	09/07/12 10:20	Unload from Instrument
JB15113-4.1.4	Andrew Lee Smith	Extract Freezer	09/07/12 10:20	Return to Storage
JB15113-4.1.4	Extract Freezer		10/12/12 09:00	Disposed
JB15113-4.1.5	Joseph Ravino	Organics Prep	09/05/12 08:17	Extract from JB15113-4.1
JB15113-4.1.5	Organics Prep	Joseph Ravino	09/05/12 11:40	Extract from JB15113-4.1
JB15113-4.1.5	Joseph Ravino	Extract Storage	09/05/12 11:40	Return to Storage
JB15113-4.1.5	Extract Storage	Douglas Siano	09/13/12 12:36	Retrieve from Storage
JB15113-4.1.5	Douglas Siano	GC4G	09/13/12 12:36	Load on Instrument
JB15113-4.1.5	GC4G	Douglas Siano	10/22/12 17:31	Unload from Instrument
JB15113-4.1.5	Douglas Siano	Extract Freezer	10/22/12 17:33	Return to Storage
JB15113-4.1.5	Extract Freezer		10/23/12 09:00	Disposed
JB15113-4.1.6	Joseph Ravino	Organics Prep	09/05/12 08:20	Extract from JB15113-4.1
JB15113-4.1.6	Organics Prep	Joseph Ravino	09/05/12 11:39	Extract from JB15113-4.1
JB15113-4.1.6	Joseph Ravino	Extract Storage	09/05/12 11:39	Return to Storage
JB15113-4.1.6	Extract Storage	Gwendolyn Dymowski	09/12/12 11:15	Retrieve from Storage
JB15113-4.1.6	Gwendolyn Dymowski	GCEF	09/12/12 11:15	Load on Instrument
JB15113-4.1.6	GCEF	Gwendolyn Dymowski	09/13/12 07:48	Unload from Instrument
JB15113-4.1.6	Gwendolyn Dymowski	Extract Freezer	09/13/12 07:48	Return to Storage
JB15113-4.1.6	Extract Freezer		10/16/12 09:00	Disposed
JB15113-4.1.7	Michael Bunza	Metals Digestion	09/07/12 18:46	Digestate from JB15113-4.1
JB15113-4.1.7	Metals Digestion	Michael Bunza	09/07/12 18:46	Digestate from JB15113-4.1
JB15113-4.1.7	Michael Bunza	Metals Digestate Storage	09/07/12 18:46	Return to Storage
JB15113-4.1.7	Metals Digestate Storage		11/14/12 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-4.3	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-4.3	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.3	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-4.4	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-4.4	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.4	Secured Storage	Robert Szot	08/31/12 18:09	Retrieve from Storage
JB15113-4.4	Robert Szot	GCMSY	08/31/12 18:09	Load on Instrument
JB15113-4.4	GCMSY	Robert Szot	09/04/12 09:17	Unload from Instrument
JB15113-4.4	Robert Szot		09/04/12 09:17	Depleted
JB15113-4.5	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-4.5	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.5	Secured Storage	Robert Szot	09/07/12 16:28	Retrieve from Storage
JB15113-4.5	Robert Szot	GCMSY	09/07/12 16:28	Load on Instrument
JB15113-4.5	GCMSY	Robert Szot	09/10/12 11:53	Unload from Instrument
JB15113-4.5	Robert Szot		09/10/12 11:54	Depleted
JB15113-5.1	Secured Storage	Vlad Petrache	08/31/12 15:22	Retrieve from Storage
JB15113-5.1	Vlad Petrache		08/31/12 22:20	Depleted
JB15113-5.1.1	Vlad Petrache	Organics Prep	08/31/12 15:22	Extract from JB15113-5.1
JB15113-5.1.1	Organics Prep	Vlad Petrache	08/31/12 22:23	Extract from JB15113-5.1
JB15113-5.1.1	Vlad Petrache	Extract Storage	08/31/12 22:23	Return to Storage
JB15113-5.1.1	Extract Storage		10/11/12 09:00	Disposed
JB15113-5.2	Secured Storage	Justin Hunkele	08/31/12 15:27	Retrieve from Storage
JB15113-5.2	Justin Hunkele		08/31/12 23:57	Depleted
JB15113-5.2.1	Justin Hunkele	Organics Prep	08/31/12 15:28	Extract from JB15113-5.2
JB15113-5.2.1	Organics Prep	Justin Hunkele	08/31/12 23:59	Extract from JB15113-5.2
JB15113-5.2.1	Justin Hunkele	Extract Storage	08/31/12 23:59	Return to Storage
JB15113-5.2.1	Extract Storage	Jignasa Patel	09/04/12 18:07	Retrieve from Storage
JB15113-5.2.1	Jignasa Patel	GC2G	09/04/12 18:07	Load on Instrument
JB15113-5.2.1	GC2G	Kristi Schollenberger	09/08/12 09:33	Unload from Instrument
JB15113-5.2.1	Kristi Schollenberger	Extract Freezer	09/08/12 09:33	Return to Storage
JB15113-5.2.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-5.2.2	Justin Hunkele	Organics Prep	08/31/12 15:29	Extract from JB15113-5.2
JB15113-5.2.2	Organics Prep	Justin Hunkele	08/31/12 23:59	Extract from JB15113-5.2
JB15113-5.2.2	Justin Hunkele	Extract Storage	08/31/12 23:59	Return to Storage
JB15113-5.2.2	Extract Storage	Husam Qasem	09/04/12 17:05	Retrieve from Storage
JB15113-5.2.2	Husam Qasem	GC5G	09/04/12 17:05	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-5.2.2	GC5G	Husam Qasem	09/11/12 10:11	Unload from Instrument
JB15113-5.2.2	Husam Qasem	Extract Freezer	09/11/12 10:12	Return to Storage
JB15113-5.2.2	Extract Freezer		10/11/12 09:00	Disposed
JB15113-5.6	Secured Storage	Dezaree Reis	08/31/12 16:37	Retrieve from Storage
JB15113-5.6	Dezaree Reis	GCMS2B	08/31/12 16:37	Load on Instrument
JB15113-5.6	GCMS2B	Dezaree Reis	09/04/12 10:36	Unload from Instrument
JB15113-5.6	Dezaree Reis	Secured Storage	09/04/12 10:36	Return to Storage
JB15113-5.6	Dave Hunkele		10/04/12 04:56	Disposed

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B4480-MB	2B99214.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B4480-MB	2B99214.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	81-121%
17060-07-0	1,2-Dichloroethane-D4	107%	74-127%
2037-26-5	Toluene-D8	113%	80-122%
460-00-4	4-Bromofluorobenzene	102%	78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5399-MB	Y125709.D	1	08/31/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5399-MB	Y125709.D	1	08/31/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	92%	70-122%
2037-26-5	Toluene-D8	105%	81-127%
460-00-4	4-Bromofluorobenzene	92%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B4480-BS	2B99215.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	40.4	81	39-152
71-43-2	Benzene	50	48.1	96	79-116
74-97-5	Bromochloromethane	50	51.7	103	82-123
75-27-4	Bromodichloromethane	50	52.0	104	83-125
75-25-2	Bromoform	50	44.8	90	74-133
74-83-9	Bromomethane	50	60.7	121	63-139
78-93-3	2-Butanone (MEK)	50	45.3	91	63-137
75-15-0	Carbon disulfide	50	49.8	100	67-126
56-23-5	Carbon tetrachloride	50	52.0	104	79-137
108-90-7	Chlorobenzene	50	49.5	99	83-118
75-00-3	Chloroethane	50	58.9	118	66-135
67-66-3	Chloroform	50	52.2	104	82-124
74-87-3	Chloromethane	50	54.2	108	52-136
110-82-7	Cyclohexane	50	49.6	99	73-122
96-12-8	1,2-Dibromo-3-chloropropane	50	42.7	85	66-128
124-48-1	Dibromochloromethane	50	48.6	97	77-127
106-93-4	1,2-Dibromoethane	50	48.6	97	77-125
95-50-1	1,2-Dichlorobenzene	50	48.8	98	81-119
541-73-1	1,3-Dichlorobenzene	50	49.2	98	82-119
106-46-7	1,4-Dichlorobenzene	50	48.1	96	78-118
75-71-8	Dichlorodifluoromethane	50	49.8	100	40-146
75-34-3	1,1-Dichloroethane	50	50.4	101	78-126
107-06-2	1,2-Dichloroethane	50	49.3	99	75-133
75-35-4	1,1-Dichloroethene	50	51.1	102	75-124
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	74-132
156-60-5	trans-1,2-Dichloroethene	50	48.5	97	68-125
78-87-5	1,2-Dichloropropane	50	50.5	101	79-119
10061-01-5	cis-1,3-Dichloropropene	50	48.5	97	80-118
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	76-124
123-91-1	1,4-Dioxane	1250	1380	110	58-147
100-41-4	Ethylbenzene	50	48.5	97	81-118
76-13-1	Freon 113	50	59.1	118	72-138
591-78-6	2-Hexanone	50	44.6	89	61-130
98-82-8	Isopropylbenzene	50	51.1	102	74-123
79-20-9	Methyl Acetate	50	44.8	90	57-126
108-87-2	Methylcyclohexane	50	59.2	118	73-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B4480-BS	2B99215.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	99.0	99	77-120
108-10-1	4-Methyl-2-pentanone(MIBK)	50	45.8	92	71-127
75-09-2	Methylene chloride	50	51.5	103	77-120
100-42-5	Styrene	50	48.0	96	81-120
79-34-5	1,1,2,2-Tetrachloroethane	50	43.9	88	71-116
127-18-4	Tetrachloroethene	50	52.5	105	60-159
108-88-3	Toluene	50	52.1	104	82-119
87-61-6	1,2,3-Trichlorobenzene	50	44.4	89	75-129
120-82-1	1,2,4-Trichlorobenzene	50	48.2	96	79-131
71-55-6	1,1,1-Trichloroethane	50	53.1	106	81-131
79-00-5	1,1,2-Trichloroethane	50	52.3	105	81-119
79-01-6	Trichloroethene	50	54.3	109	84-122
75-69-4	Trichlorofluoromethane	50	55.1	110	71-142
75-01-4	Vinyl chloride	50	54.8	110	64-133
	m,p-Xylene	100	97.7	98	81-119
95-47-6	o-Xylene	50	49.6	99	83-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	81-121%
17060-07-0	1,2-Dichloroethane-D4	105%	74-127%
2037-26-5	Toluene-D8	115%	80-122%
460-00-4	4-Bromofluorobenzene	102%	78-116%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5399-BS	Y125710.D	1	08/31/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	49.0	98	31-168
71-43-2	Benzene	50	48.4	97	76-117
74-97-5	Bromochloromethane	50	52.4	105	79-128
75-27-4	Bromodichloromethane	50	46.4	93	78-128
75-25-2	Bromoform	50	54.9	110	71-138
74-83-9	Bromomethane	50	59.6	119	55-145
78-93-3	2-Butanone (MEK)	50	47.6	95	55-149
75-15-0	Carbon disulfide	50	53.9	108	65-132
56-23-5	Carbon tetrachloride	50	46.2	92	70-140
108-90-7	Chlorobenzene	50	49.1	98	78-120
75-00-3	Chloroethane	50	58.5	117	62-139
67-66-3	Chloroform	50	47.4	95	78-124
74-87-3	Chloromethane	50	53.4	107	50-132
110-82-7	Cyclohexane	50	50.1	100	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	50.5	101	61-132
124-48-1	Dibromochloromethane	50	49.9	100	75-128
106-93-4	1,2-Dibromoethane	50	50.2	100	77-122
95-50-1	1,2-Dichlorobenzene	50	48.4	97	76-119
541-73-1	1,3-Dichlorobenzene	50	47.4	95	75-120
106-46-7	1,4-Dichlorobenzene	50	45.9	92	72-113
75-71-8	Dichlorodifluoromethane	50	40.5	81	41-138
75-34-3	1,1-Dichloroethane	50	52.1	104	75-127
107-06-2	1,2-Dichloroethane	50	43.4	87	68-134
75-35-4	1,1-Dichloroethene	50	47.4	95	73-127
156-59-2	cis-1,2-Dichloroethene	50	51.3	103	77-121
156-60-5	trans-1,2-Dichloroethene	50	49.5	99	76-123
78-87-5	1,2-Dichloropropane	50	51.4	103	75-121
10061-01-5	cis-1,3-Dichloropropene	50	45.6	91	76-122
10061-02-6	trans-1,3-Dichloropropene	50	46.3	93	75-126
123-91-1	1,4-Dioxane	1250	1580	126	59-135
100-41-4	Ethylbenzene	50	44.9	90	74-119
76-13-1	Freon 113	50	57.7	115	62-141
591-78-6	2-Hexanone	50	43.0	86	60-136
98-82-8	Isopropylbenzene	50	43.6	87	71-119
79-20-9	Methyl Acetate	50	60.3	121	50-134
108-87-2	Methylcyclohexane	50	53.5	107	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5399-BS	Y125710.D	1	08/31/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	96.1	96	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	47.3	95	68-134
75-09-2	Methylene chloride	50	52.2	104	72-120
100-42-5	Styrene	50	46.7	93	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	42.8	86	67-117
127-18-4	Tetrachloroethene	50	47.9	96	63-146
108-88-3	Toluene	50	44.9	90	77-121
87-61-6	1,2,3-Trichlorobenzene	50	47.4	95	64-131
120-82-1	1,2,4-Trichlorobenzene	50	47.7	95	65-132
71-55-6	1,1,1-Trichloroethane	50	45.2	90	74-133
79-00-5	1,1,2-Trichloroethane	50	48.7	97	76-124
79-01-6	Trichloroethene	50	48.5	97	79-124
75-69-4	Trichlorofluoromethane	50	52.7	105	61-147
75-01-4	Vinyl chloride	50	57.7	115	57-138
	m,p-Xylene	100	90.4	90	75-119
95-47-6	o-Xylene	50	47.0	94	77-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	82%	70-122%
2037-26-5	Toluene-D8	107%	81-127%
460-00-4	4-Bromofluorobenzene	88%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB14853-1MS	2B99222.D	1	08/31/12	DR	n/a	n/a	V2B4480
JB14853-1MSD	2B99223.D	1	08/31/12	DR	n/a	n/a	V2B4480
JB14853-1	2B99218.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	JB14853-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	46.8	94	50	46.5	93	1	34-156/22
71-43-2	Benzene	ND		50	47.1	94	50	45.7	91	3	48-138/11
74-97-5	Bromochloromethane	ND		50	52.5	105	50	52.8	106	1	76-131/10
75-27-4	Bromodichloromethane	ND		50	52.5	105	50	51.8	104	1	74-130/10
75-25-2	Bromoform	ND		50	43.9	88	50	43.1	86	2	66-136/12
74-83-9	Bromomethane	ND		50	58.1	116	50	56.1	112	4	55-146/14
78-93-3	2-Butanone (MEK)	ND		50	48.5	97	50	46.7	93	4	56-144/15
75-15-0	Carbon disulfide	ND		50	44.3	89	50	41.5	83	7	44-141/17
56-23-5	Carbon tetrachloride	ND		50	49.8	100	50	47.3	95	5	58-151/15
108-90-7	Chlorobenzene	ND		50	49.2	98	50	48.5	97	1	70-128/10
75-00-3	Chloroethane	ND		50	52.3	105	50	50.8	102	3	54-144/14
67-66-3	Chloroform	0.44	J	50	49.9	99	50	48.7	97	2	69-132/11
74-87-3	Chloromethane	ND		50	50.2	100	50	47.2	94	6	45-146/16
110-82-7	Cyclohexane	ND		50	47.8	96	50	45.7	91	4	46-142/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.2	90	50	44.8	90	1	62-133/13
124-48-1	Dibromochloromethane	ND		50	48.6	97	50	48.4	97	0	71-132/10
106-93-4	1,2-Dibromoethane	ND		50	50.8	102	50	50.9	102	0	73-130/10
95-50-1	1,2-Dichlorobenzene	ND		50	50.0	100	50	49.3	99	1	73-126/10
541-73-1	1,3-Dichlorobenzene	ND		50	49.3	99	50	48.7	97	1	72-126/10
106-46-7	1,4-Dichlorobenzene	ND		50	49.2	98	50	48.4	97	2	70-124/10
75-71-8	Dichlorodifluoromethane	ND		50	61.2	122	50	57.9	116	6	33-161/19
75-34-3	1,1-Dichloroethane	ND		50	48.1	96	50	46.4	93	4	63-134/12
107-06-2	1,2-Dichloroethane	ND		50	50.6	101	50	49.5	99	2	68-139/10
75-35-4	1,1-Dichloroethene	ND		50	48.6	97	50	46.3	93	5	52-142/15
156-59-2	cis-1,2-Dichloroethene	ND		50	49.2	98	50	48.4	97	2	59-137/11
156-60-5	trans-1,2-Dichloroethene	ND		50	47.0	94	50	44.9	90	5	60-134/12
78-87-5	1,2-Dichloropropane	ND		50	49.7	99	50	48.9	98	2	70-126/10
10061-01-5	cis-1,3-Dichloropropene	ND		50	52.3	105	50	51.3	103	2	74-125/10
10061-02-6	trans-1,3-Dichloropropene	ND		50	51.5	103	50	50.8	102	1	71-127/11
123-91-1	1,4-Dioxane	ND		1250	1460	117	1250	1520	122	4	56-152/24
100-41-4	Ethylbenzene	ND		50	47.4	95	50	46.6	93	2	48-139/11
76-13-1	Freon 113	ND		50	53.8	108	50	51.9	104	4	49-156/18
591-78-6	2-Hexanone	ND		50	46.3	93	50	45.5	91	2	59-135/15
98-82-8	Isopropylbenzene	ND		50	50.6	101	50	49.0	98	3	61-135/12
79-20-9	Methyl Acetate	ND		50	47.8	96	50	45.5	91	5	51-138/16
108-87-2	Methylcyclohexane	ND		50	51.1	102	50	48.6	97	5	47-145/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB14853-1MS	2B99222.D	1	08/31/12	DR	n/a	n/a	V2B4480
JB14853-1MSD	2B99223.D	1	08/31/12	DR	n/a	n/a	V2B4480
JB14853-1	2B99218.D	1	08/31/12	DR	n/a	n/a	V2B4480

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-5

CAS No.	Compound	JB14853-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.9	98	50	48.6	97	1	63-133/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	47.4	95	50	47.0	94	1	66-134/12
75-09-2	Methylene chloride	ND		50	50.5	101	50	49.9	100	1	68-129/11
100-42-5	Styrene	ND		50	44.5	89	50	43.9	88	1	66-132/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.4	95	50	46.4	93	2	69-124/11
127-18-4	Tetrachloroethene	ND		50	51.3	103	50	50.9	102	1	57-144/13
108-88-3	Toluene	ND		50	50.8	102	50	49.4	99	3	55-138/11
87-61-6	1,2,3-Trichlorobenzene	ND		50	44.7	89	50	45.2	90	1	67-133/11
120-82-1	1,2,4-Trichlorobenzene	ND		50	47.8	96	50	47.6	95	0	68-133/11
71-55-6	1,1,1-Trichloroethane	ND		50	50.6	101	50	48.5	97	4	61-146/14
79-00-5	1,1,2-Trichloroethane	ND		50	52.9	106	50	52.4	105	1	75-125/10
79-01-6	Trichloroethene	ND		50	52.1	104	50	51.0	102	2	59-140/12
75-69-4	Trichlorofluoromethane	ND		50	54.1	108	50	51.3	103	5	49-158/20
75-01-4	Vinyl chloride	ND		50	60.0	120	50	57.2	114	5	45-150/16
	m,p-Xylene	ND		100	94.7	95	100	93.4	93	1	47-141/11
95-47-6	o-Xylene	ND		50	48.0	96	50	47.4	95	1	58-136/11

CAS No.	Surrogate Recoveries	MS	MSD	JB14853-1	Limits
1868-53-7	Dibromofluoromethane	107%	107%	108%	81-121%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	105%	74-127%
2037-26-5	Toluene-D8	115%	114%	106%	80-122%
460-00-4	4-Bromofluorobenzene	105%	103%	101%	78-116%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15155-1MS	Y125711.D	1	08/31/12	RS	n/a	n/a	VY5399
JB15155-1MSD	Y125712.D	1	09/01/12	RS	n/a	n/a	VY5399
JB15155-1	Y125714.D	1	09/01/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	JB15155-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	27.5		63.7	122	148	63.7	123	150	1	10-198/35
71-43-2	Benzene	ND		63.7	32.8	52	63.7	33.0	52	1	44-130/21
74-97-5	Bromochloromethane	ND		63.7	39.3	62	63.7	40.2	63	2	52-136/19
75-27-4	Bromodichloromethane	ND		63.7	31.2	49	63.7	31.7	50	2	43-141/20
75-25-2	Bromoform	ND		63.7	38.2	60	63.7	38.5	60	1	34-149/22
74-83-9	Bromomethane	ND		63.7	45.2	71	63.7	47.1	74	4	10-159/28
78-93-3	2-Butanone (MEK)	ND		63.7	65.6	103	63.7	65.6	103	0	27-174/31
75-15-0	Carbon disulfide	ND		63.7	34.3	54	63.7	34.3	54	0	36-140/25
56-23-5	Carbon tetrachloride	ND		63.7	30.0	47	63.7	29.6	46	1	33-153/22
108-90-7	Chlorobenzene	ND		63.7	30.2	47	63.7	30.6	48	1	35-137/23
75-00-3	Chloroethane	279	E	63.7	244	-55* [a]	63.7	282	5* [a]	14	29-146/27
67-66-3	Chloroform	0.49	J	63.7	32.9	51	63.7	33.0	51	0	49-133/21
74-87-3	Chloromethane	ND		63.7	44.1	69	63.7	45.4	71	3	36-140/23
110-82-7	Cyclohexane	ND		63.7	36.1	57	63.7	36.0	57	0	24-149/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		63.7	40.1	63	63.7	39.7	62	1	24-149/26
124-48-1	Dibromochloromethane	ND		63.7	34.5	54	63.7	35.0	55	1	40-142/21
106-93-4	1,2-Dibromoethane	ND		63.7	36.6	57	63.7	37.9	60	3	41-139/21
95-50-1	1,2-Dichlorobenzene	ND		63.7	30.0	47	63.7	29.0	46	3	23-141/27
541-73-1	1,3-Dichlorobenzene	ND		63.7	27.7	44	63.7	26.9	42	3	22-141/27
106-46-7	1,4-Dichlorobenzene	ND		63.7	27.6	43	63.7	26.7	42	3	21-136/26
75-71-8	Dichlorodifluoromethane	ND		63.7	38.4	60	63.7	40.3	63	5	24-162/25
75-34-3	1,1-Dichloroethane	669	E	63.7	486	-287* [a]	63.7	549	-188* [a]	12	48-132/20
107-06-2	1,2-Dichloroethane	7.4		63.7	39.2	50	63.7	40.6	52	4	43-139/19
75-35-4	1,1-Dichloroethene	34.5		63.7	56.8	35* [b]	63.7	59.2	39* [b]	4	42-139/23
156-59-2	cis-1,2-Dichloroethene	10.2		63.7	42.8	51	63.7	44.5	54	4	46-132/21
156-60-5	trans-1,2-Dichloroethene	3.2	J	63.7	35.6	51	63.7	36.0	52	1	44-135/22
78-87-5	1,2-Dichloropropane	ND		63.7	36.6	57	63.7	37.0	58	1	45-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		63.7	32.1	50	63.7	32.9	52	2	43-133/23
10061-02-6	trans-1,3-Dichloropropene	ND		63.7	30.2	47	63.7	31.0	49	3	41-138/23
123-91-1	1,4-Dioxane	ND		1590	1950	123	1590	1750	110	11	38-159/35
100-41-4	Ethylbenzene	ND		63.7	29.3	46	63.7	28.8	45	2	29-137/25
76-13-1	Freon 113	ND		63.7	39.5	62	63.7	40.6	64	3	28-154/28
591-78-6	2-Hexanone	ND		63.7	43.1	68	63.7	42.9	67	0	25-161/28
98-82-8	Isopropylbenzene	ND		63.7	29.5	46	63.7	28.7	45	3	27-138/26
79-20-9	Methyl Acetate	ND		63.7	95.1	149	63.7	95.3	150	0	26-173/30
108-87-2	Methylcyclohexane	ND		63.7	31.7	50	63.7	33.4	52	5	16-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15155-1MS	Y125711.D	1	08/31/12	RS	n/a	n/a	VY5399
JB15155-1MSD	Y125712.D	1	09/01/12	RS	n/a	n/a	VY5399
JB15155-1	Y125714.D	1	09/01/12	RS	n/a	n/a	VY5399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-1, JB15113-3

CAS No.	Compound	JB15155-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		63.7	38.9	61	63.7	39.3	62	1	51-128/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		63.7	44.2	69	63.7	45.3	71	2	39-143/22
75-09-2	Methylene chloride	ND		63.7	38.5	60	63.7	39.1	61	2	50-125/20
100-42-5	Styrene	ND		63.7	28.2	44	63.7	28.1	44	0	27-146/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		63.7	33.5	53	63.7	34.0	53	1	36-130/27
127-18-4	Tetrachloroethene	1.6	J	63.7	36.6	55	63.7	36.2	54	1	20-173/26
108-88-3	Toluene	2.7		63.7	31.7	46	63.7	32.0	46	1	40-135/22
87-61-6	1,2,3-Trichlorobenzene	ND		63.7	25.1	39	63.7	22.7	36	10	10-155/34
120-82-1	1,2,4-Trichlorobenzene	ND		63.7	25.2	40	63.7	22.2	35	13	10-152/34
71-55-6	1,1,1-Trichloroethane	383	E	63.7	339	-69* [a]	63.7	331	-82* [a]	2	41-145/22
79-00-5	1,1,2-Trichloroethane	3.8	J	63.7	40.1	57	63.7	41.2	59	3	45-137/21
79-01-6	Trichloroethene	20.5		63.7	48.4	44	63.7	47.2	42	3	35-149/23
75-69-4	Trichlorofluoromethane	ND		63.7	44.2	69	63.7	46.3	73	5	26-164/25
75-01-4	Vinyl chloride	2.0	J	63.7	50.2	76	63.7	52.0	79	4	36-150/23
	m,p-Xylene	ND		127	59.0	46	127	57.4	45	3	28-139/26
95-47-6	o-Xylene	ND		63.7	30.4	48	63.7	30.1	47	1	31-139/24

CAS No.	Surrogate Recoveries	MS	MSD	JB15155-1	Limits
1868-53-7	Dibromofluoromethane	101%	101%	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	85%	84%	85%	70-122%
2037-26-5	Toluene-D8	107%	107%	106%	81-127%
460-00-4	4-Bromofluorobenzene	91%	90%	94%	66-132%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V2B4426-BFB
Lab File ID: 2B98008.D
Instrument ID: GCMS2B
Injection Date: 07/25/12
Injection Time: 10:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15601	18.6		Pass
75	30.0 - 60.0% of mass 95	39365	46.9		Pass
95	Base peak, 100% relative abundance	83994	100.0		Pass
96	5.0 - 9.0% of mass 95	5606	6.67		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	81794	97.4		Pass
175	5.0 - 9.0% of mass 174	6305	7.51	(7.71) [a]	Pass
176	95.0 - 101.0% of mass 174	80114	95.4	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	5161	6.14	(6.44) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B4426-IC4426	2B98009.D	07/25/12	10:39	00:34	Initial cal 0.5
V2B4426-IC4426	2B98010.D	07/25/12	11:11	01:06	Initial cal 1
V2B4426-IC4426	2B98011.D	07/25/12	11:42	01:37	Initial cal 2
V2B4426-IC4426	2B98013.D	07/25/12	12:44	02:39	Initial cal 10
V2B4426-IC4426	2B98014.D	07/25/12	13:16	03:11	Initial cal 20
V2B4426-ICC4426	2B98015.D	07/25/12	13:47	03:42	Initial cal 50
V2B4426-IC4426	2B98016.D	07/25/12	14:18	04:13	Initial cal 100
V2B4426-IC4426	2B98017.D	07/25/12	14:50	04:45	Initial cal 200
V2B4426-IC4426	2B98020.D	07/25/12	16:25	06:20	Initial cal 5
V2B4426-ICV4426	2B98021.D	07/25/12	16:57	06:52	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V2B4480-BFB
Lab File ID: 2B99210.D
Instrument ID: GCMS2B
Injection Date: 08/31/12
Injection Time: 08:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	30189	20.1		Pass
75	30.0 - 60.0% of mass 95	74261	49.5		Pass
95	Base peak, 100% relative abundance	150099	100.0		Pass
96	5.0 - 9.0% of mass 95	9655	6.43		Pass
173	Less than 2.0% of mass 174	1061	0.71	(0.72) [a]	Pass
174	50.0 - 150.0% of mass 95	146816	97.8		Pass
175	5.0 - 9.0% of mass 174	11117	7.41	(7.57) [a]	Pass
176	95.0 - 101.0% of mass 174	143040	95.3	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9389	6.26	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B4480-CC4426	2B99212.D	08/31/12	10:03	01:09	Continuing cal 50
V2B4480-MB	2B99214.D	08/31/12	11:16	02:22	Method Blank
V2B4480-BS	2B99215.D	08/31/12	11:48	02:54	Blank Spike
ZZZZZZ	2B99217.D	08/31/12	13:02	04:08	(unrelated sample)
JB14853-1	2B99218.D	08/31/12	13:34	04:40	(used for QC only; not part of job JB15113)
ZZZZZZ	2B99219.D	08/31/12	14:05	05:11	(unrelated sample)
ZZZZZZ	2B99220.D	08/31/12	14:37	05:43	(unrelated sample)
ZZZZZZ	2B99221.D	08/31/12	15:09	06:15	(unrelated sample)
JB14853-1MS	2B99222.D	08/31/12	15:40	06:46	Matrix Spike
JB14853-1MSD	2B99223.D	08/31/12	16:12	07:18	Matrix Spike Duplicate
JB15113-5	2B99225.D	08/31/12	17:16	08:22	047 FB-1
ZZZZZZ	2B99226.D	08/31/12	17:47	08:53	(unrelated sample)
ZZZZZZ	2B99227.D	08/31/12	18:19	09:25	(unrelated sample)
ZZZZZZ	2B99228.D	08/31/12	18:51	09:57	(unrelated sample)
ZZZZZZ	2B99229.D	08/31/12	19:22	10:28	(unrelated sample)
ZZZZZZ	2B99230.D	08/31/12	19:54	11:00	(unrelated sample)
ZZZZZZ	2B99231.D	08/31/12	20:26	11:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: VY5252-BFB
Lab File ID: Y122447.D
Instrument ID: GCMSY
Injection Date: 04/26/12
Injection Time: 17:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7388	18.1		Pass
75	30.0 - 60.0% of mass 95	19178	47.0		Pass
95	Base peak, 100% relative abundance	40792	100.0		Pass
96	5.0 - 9.0% of mass 95	2790	6.84		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	37789	92.6		Pass
175	5.0 - 9.0% of mass 174	2997	7.35	(7.93) [a]	Pass
176	95.0 - 101.0% of mass 174	37184	91.2	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2482	6.08	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY5252-IC5252	Y122448.D	04/26/12	17:39	00:39	Initial cal 10
VY5252-IC5252	Y122449.D	04/26/12	18:09	01:09	Initial cal 5
VY5252-IC5252	Y122450.D	04/26/12	18:38	01:38	Initial cal 2
ZZZZZZ	Y122450A.D	04/26/12	18:38	01:38	(unrelated sample)
VY5252-IC5252	Y122451.D	04/26/12	19:08	02:08	Initial cal 1
ZZZZZZ	Y122451.D	04/26/12	19:08	02:08	(unrelated sample)
ZZZZZZ	Y122452.D	04/26/12	19:38	02:38	(unrelated sample)
VY5252-IC5252	Y122452.D	04/26/12	19:38	02:38	Initial cal 0.5
VY5252-IC5252	Y122453.D	04/26/12	20:08	03:08	Initial cal 20
VY5252-ICC5252	Y122454.D	04/26/12	20:37	03:37	Initial cal 50
VY5252-IC5252	Y122455.D	04/26/12	21:07	04:07	Initial cal 75
VY5252-IC5252	Y122456.D	04/26/12	21:37	04:37	Initial cal 100
VY5252-IC5252	Y122457.D	04/26/12	22:06	05:06	Initial cal 200
VY5252-ICV5252	Y122459.D	04/26/12	23:05	06:05	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: VY5399-BFB
Lab File ID: Y125706.D
Instrument ID: GCMSY
Injection Date: 08/31/12
Injection Time: 21:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4995	15.5		Pass
75	30.0 - 60.0% of mass 95	14164	44.0		Pass
95	Base peak, 100% relative abundance	32160	100.0		Pass
96	5.0 - 9.0% of mass 95	2163	6.73		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	33280	103.5		Pass
175	5.0 - 9.0% of mass 174	2627	8.17	(7.89) [a]	Pass
176	95.0 - 101.0% of mass 174	32576	101.3	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	2145	6.67	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY5399-CC5252	Y125707.D	08/31/12	21:42	00:29	Continuing cal 50
VY5399-MB	Y125709.D	08/31/12	22:40	01:27	Method Blank
VY5399-BS	Y125710.D	08/31/12	23:09	01:56	Blank Spike
JB15155-1MS	Y125711.D	08/31/12	23:39	02:26	Matrix Spike
JB15155-1MSD	Y125712.D	09/01/12	00:08	02:55	Matrix Spike Duplicate
JB15155-1	Y125714.D	09/01/12	01:06	03:53	(used for QC only; not part of job JB15113)
ZZZZZZ	Y125715.D	09/01/12	01:35	04:22	(unrelated sample)
ZZZZZZ	Y125716.D	09/01/12	02:05	04:52	(unrelated sample)
ZZZZZZ	Y125717.D	09/01/12	02:34	05:21	(unrelated sample)
JB15113-1	Y125718.D	09/01/12	03:03	05:50	043-PE 6A-0.5'-1'
JB15113-3	Y125720.D	09/01/12	04:02	06:49	045-PE 7A-0.5'-1'
ZZZZZZ	Y125722.D	09/01/12	05:00	07:47	(unrelated sample)
ZZZZZZ	Y125723.D	09/01/12	05:29	08:16	(unrelated sample)
ZZZZZZ	Y125724.D	09/01/12	05:58	08:45	(unrelated sample)
ZZZZZZ	Y125725.D	09/01/12	06:28	09:15	(unrelated sample)
ZZZZZZ	Y125726.D	09/01/12	06:57	09:44	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	V2B4480-CC4426	**Injection Date:**	08/31/12
Lab File ID:	2B99212.D	**Injection Time:**	10:03
Instrument ID:	GCMS2B	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	107177	8.21	277149	10.68	373150	11.60	350528	14.59	196698	16.75
Upper Limit [a]	214354	8.71	554298	11.18	746300	12.10	701056	15.09	393396	17.25
Lower Limit [b]	53589	7.71	138575	10.18	186575	11.10	175264	14.09	98349	16.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B4480-MB	99992	8.20	281908	10.68	374389	11.60	344968	14.59	197757	16.75
V2B4480-BS	100009	8.21	275600	10.69	372094	11.60	349914	14.59	196067	16.75
ZZZZZZ	101965	8.20	282404	10.69	369914	11.60	341971	14.59	199431	16.75
JB14853-1	101805	8.21	289743	10.69	384141	11.60	351037	14.59	199273	16.75
ZZZZZZ	104222	8.21	281393	10.68	373910	11.60	351137	14.59	202143	16.75
ZZZZZZ	114234	8.21	281142	10.69	377481	11.60	356063	14.59	206384	16.75
ZZZZZZ	114120	8.21	306000	10.68	395687	11.60	369835	14.59	217834	16.75
JB14853-1MS	111229	8.21	298530	10.69	395438	11.60	367215	14.59	202529	16.75
JB14853-1MSD	111079	8.21	297047	10.68	395998	11.60	363427	14.59	202774	16.75
JB15113-5	112440	8.20	308794	10.68	405611	11.60	369413	14.59	210280	16.75
ZZZZZZ	110810	8.21	304377	10.69	397559	11.60	363939	14.59	209552	16.75
ZZZZZZ	107238	8.20	301059	10.68	393128	11.60	359878	14.59	206125	16.75
ZZZZZZ	105761	8.20	297501	10.68	389734	11.60	355516	14.59	204129	16.75
ZZZZZZ	109744	8.21	288976	10.69	380047	11.60	350452	14.59	201130	16.75
ZZZZZZ	102082	8.21	293165	10.69	382951	11.60	354158	14.59	202696	16.75
ZZZZZZ	100764	8.20	282185	10.68	375161	11.60	346223	14.59	196318	16.75

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	VY5399-CC5252	**Injection Date:**	08/31/12
Lab File ID:	Y125707.D	**Injection Time:**	21:42
Instrument ID:	GCMSY	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	46351	7.66	140896	9.84	198078	10.76	165322	13.84	81944	16.12
Upper Limit [a]	92702	8.16	281792	10.34	396156	11.26	330644	14.34	163888	16.62
Lower Limit [b]	23176	7.16	70448	9.34	99039	10.26	82661	13.34	40972	15.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VY5399-MB	45903	7.67	126470	9.84	178089	10.76	147495	13.84	68822	16.12
VY5399-BS	40238	7.67	133730	9.84	187976	10.76	157413	13.84	78847	16.12
JB15155-1MS	46235	7.67	147311	9.84	205075	10.76	170972	13.84	83593	16.12
JB15155-1MSD	47056	7.67	146164	9.84	203454	10.76	171372	13.84	83656	16.12
JB15155-1	45222	7.67	151991	9.84	209869	10.76	171788	13.84	79001	16.12
ZZZZZZ	48180	7.67	156920	9.84	216796	10.76	174822	13.84	82238	16.12
ZZZZZZ	47253	7.67	149760	9.84	206072	10.76	163712	13.84	73173	16.12
ZZZZZZ	43737	7.67	145513	9.84	201446	10.76	163736	13.84	77377	16.12
JB15113-1	43852	7.67	158185	9.84	217731	10.76	175919	13.84	80321	16.12
JB15113-3	42775	7.67	143028	9.84	197934	10.76	158932	13.84	71111	16.12
ZZZZZZ	36895	7.67	134535	9.84	181151	10.76	141544	13.84	78575	16.12
ZZZZZZ	46363	7.67	166909	9.84	232450	10.76	190752	13.84	93877	16.12
ZZZZZZ	48900	7.67	157331	9.84	218537	10.76	180043	13.84	88349	16.12
ZZZZZZ	46879	7.67	159819	9.84	221246	10.76	180766	13.84	89128	16.12
ZZZZZZ	50054	7.66	146889	9.84	205995	10.76	173276	13.84	93171	16.12

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB15113-5	2B99225.D	106	104	113	103
JB14853-1MS	2B99222.D	107	103	115	105
JB14853-1MSD	2B99223.D	107	103	114	103
V2B4480-BS	2B99215.D	109	105	115	102
V2B4480-MB	2B99214.D	110	107	113	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	81-121%
S2 = 1,2-Dichloroethane-D4	74-127%
S3 = Toluene-D8	80-122%
S4 = 4-Bromofluorobenzene	78-116%

Volatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB15113-1	Y125718.D	102	86	105	94
JB15113-3	Y125720.D	102	86	105	94
JB15155-1MS	Y125711.D	101	85	107	91
JB15155-1MSD	Y125712.D	101	84	107	90
VY5399-BS	Y125710.D	102	82	107	88
VY5399-MB	Y125709.D	103	92	105	92

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = 1,2-Dichloroethane-D4	70-122%
S3 = Toluene-D8	81-127%
S4 = 4-Bromofluorobenzene	66-132%

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: V2B4426-ICC4426
Lab FileID: 2B98015.D

Response Factor Report MS2B

```
Method       : C:\MSDCHEM\1\METHODS\M2B4426.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Thu Jul 26 09:34:46 2012
Response via : Initial Calibration

Calibration Files
1   =2B98010.D   2   =2B98011.D   100 =2B98016.D   50  =2B98015.D
20  =2B98014.D   200 =2B98017.D   5   =2B98020.D   10  =2B98013.D
0.5 =2B98009.D       =
```

Compound	1	2	100	50	20	200	5	10	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol	0.840	0.804	0.897	0.963	0.962	0.887	0.820	0.886		0.882	6.77
3) 1,4-dioxane			0.068	0.086	0.092	0.087	0.086	0.072	0.079	0.082	10.82
4) I pentafluorobenzene ----------ISTD----------											
5) chlorodifluoromethane	0.467	0.377	0.448	0.450	0.432	0.439	0.375	0.437	0.309	0.415	12.23
6) dichlorodifluoromethane	0.469	0.464	0.504	0.515	0.505	0.502	0.455	0.481	0.344	0.471	11.08
7) chlorotrifluoroethene										0.000#	-1.00
8) chloromethane	0.620	0.507	0.518	0.526	0.515	0.496	0.516	0.513	0.636	0.539	9.55
9) vinyl chloride	0.523	0.506	0.540	0.548	0.539	0.526	0.506	0.533	0.441	0.518	6.24
10) bromomethane	0.342	0.321	0.330	0.328	0.324	0.291	0.343	0.320	0.348	0.328	5.19
11) chloroethane	0.285	0.265	0.276	0.274	0.273	0.277	0.265	0.264	0.240	0.269	4.71
12) vinyl bromide										0.000#	-1.00
13) trichlorofluoromethane	0.603	0.586	0.618	0.628	0.622	0.607	0.563	0.610	0.410	0.583	11.62
14) Pentane										0.000#	-1.00
15) ethyl ether	0.142	0.208	0.219	0.218	0.207	0.216	0.180	0.208		0.200	13.15
16) acrolein	0.060	0.066	0.076	0.078	0.078	0.073	0.072	0.075	0.048	0.069	14.59
17) 2-chloropropane	0.761	0.842	0.744	0.762	0.736	0.718	0.647	0.816	0.873	0.767	8.96
18) 1,2-dichloro-1,2,2-trifluoroet										0.000#	-1.00
19) 1,1-dichloroethene	0.275	0.347	0.334	0.344	0.324	0.328	0.306	0.347	0.249	0.317	10.84
20) acetone			0.103	0.104	0.101	0.102	0.072	0.092		0.096	12.84
21) allyl chloride			0.185	0.230	0.225	0.220	0.223	0.180	0.235	0.214	10.29
22) acetonitrile			0.024	0.024	0.023	0.024		0.020		0.023	6.17
23) iodomethane											

Initial Calibration Summary

Job Number: JB15113 **Sample:** V2B4426-ICC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98015.D
Project: 508 West 24th Street, Manhattan, NY

```
            0.467 0.614 0.666 0.669 0.631 0.660 0.576 0.673 0.456   0.601   14.18
24)  iso-butyl alcohol
                  0.006 0.005 0.005 0.005 0.005 0.004 0.005         0.005#  14.42
25)  carbon disulfide
            0.899 1.124 1.174 1.193 1.114 1.153 0.936 1.198 0.905   1.077   11.74
26)  methylene chloride
            0.290 0.391 0.378 0.381 0.371 0.372 0.336 0.394 0.285   0.356   11.78
27)  methyl acetate
                        0.059 0.058 0.054 0.057 0.041 0.043         0.052   15.60
             ----- Linear regression -----  Coefficient =  0.9995
               Response Ratio = -0.00114 + 0.05807 *A

28)  1-chloropropane
            0.838 0.836 0.742 0.761 0.753 0.716 0.741 0.828 0.888   0.789    7.47
29)  methyl tert butyl ether
            0.899 1.143 1.114 1.149 1.122 1.066 1.039 1.174 0.971   1.075    8.49
30)  trans-1,2-dichloroethene
            0.324 0.380 0.359 0.369 0.358 0.352 0.330 0.392 0.347   0.357    6.10
31)  di-isopropyl ether
            1.315 1.192 1.293 1.343 1.326 1.240 1.182 1.324 1.130   1.260    6.11
32)  2-butanone
                        0.042 0.042 0.038 0.043       0.034         0.040    9.96
33)  1,1-dichloroethane
            0.554 0.645 0.710 0.718 0.666 0.678 0.606 0.731 0.495   0.645   12.36
34)  chloroprene
            0.462 0.429 0.514 0.536 0.521 0.502 0.443 0.513         0.490    8.09
35)  acrylonitrile
                  0.115 0.148 0.148 0.146 0.145 0.121 0.141         0.138   10.03
36)  vinyl acetate
                        0.062 0.063 0.056 0.065       0.044         0.058   14.96
37)  ethyl tert-butyl ether
            1.221 1.127 1.275 1.314 1.286 1.229 1.143 1.265 0.987   1.205    8.57
38)  ethyl acetate
                        0.059 0.063 0.060 0.053 0.043 0.057         0.056   12.67
39)  2,2-dichloropropane
            0.493 0.609 0.540 0.561 0.554 0.513 0.525 0.596 0.475   0.541    8.25
40)  cis-1,2-dichloroethene
            0.347 0.416 0.401 0.402 0.392 0.391 0.359 0.422 0.332   0.385    8.15
41)  propionitrile
                  0.046 0.054 0.055 0.056 0.053 0.043 0.054         0.052    9.60
42)  bromochloromethane
            0.143 0.187 0.205 0.205 0.200 0.202 0.178 0.207         0.191   11.40
43)  tetrahydrofuran
                  0.172 0.144 0.146 0.152 0.133 0.151 0.152         0.150    7.89
44)  chloroform
            0.543 0.659 0.653 0.662 0.640 0.636 0.585 0.680 0.589   0.627    7.20
45)  t-butyl formate
            0.356 0.338 0.399 0.411 0.410 0.386 0.344 0.389         0.379    7.67
46)  dibromofluoromethane (s)
            0.341 0.315 0.356 0.367 0.352 0.351 0.325 0.368 0.416   0.355    8.18
47)  1,2-dichloroethane-d4 (s)
            0.355 0.373 0.425 0.442 0.434 0.417 0.382 0.446 0.392   0.407    8.09
48)  freon 113
            0.224 0.223 0.299 0.307 0.299 0.296 0.251 0.304         0.275   13.13
49)  methacrylonitrile
            0.243 0.278 0.239 0.238 0.227 0.240 0.177 0.246 0.298   0.243   13.72
50)  1,1,1-trichloroethane
            0.451 0.555 0.576 0.583 0.550 0.564 0.493 0.588 0.421   0.531   11.50
51)  Cyclohexane
            0.404 0.521 0.530 0.543 0.520 0.520 0.463 0.571         0.509   10.27
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** V2B4426-ICC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98015.D
Project: 508 West 24th Street, Manhattan, NY

```
52)  tert amyl alcohol
                                                                    0.000#  -1.00

53) I   1,4-difluorobenzene   ----------------ISTD--------------------
54)  tert amyl ethyl ether
                                                                    0.000#  -1.00
55)  Di-isobutylene
                                                                    0.000#  -1.00
56)  epichlorohydrin
           0.023 0.024 0.024 0.025 0.026 0.023 0.022 0.026          0.024    5.25
57)  n-butyl alcohol
           0.007 0.007 0.008 0.008 0.009 0.008 0.007 0.007          0.008#   9.20
58)  carbon tetrachloride
           0.291 0.381 0.382 0.394 0.375 0.374 0.332 0.415          0.368   10.51
59)  1,1-dichloropropene
           0.287 0.377 0.373 0.387 0.370 0.367 0.337 0.398 0.286    0.353   11.77
60)  hexane
           0.320 0.291 0.334 0.343 0.332 0.324 0.291 0.352 0.287    0.320    7.56
61)  benzene
           0.897 1.125 1.046 1.084 1.050 1.020 0.965 1.132 0.908    1.025    8.42
62)  2,2,4-trimethylpentane
           1.054 0.824 0.926 0.989 0.966 0.900 0.838 1.049 0.853    0.933    9.34
63)  tert-amyl methyl ether
           0.902 0.797 0.810 0.846 0.847 0.773 0.792 0.868 0.832    0.830    4.92
64)  heptane
           0.191 0.169 0.197 0.205 0.198 0.194 0.168 0.212 0.169    0.189    8.78
65)  isopropyl acetate
                 0.457 0.460 0.485 0.492 0.435 0.454 0.526          0.473    6.48
66)  1,2-dichloroethane
           0.309 0.399 0.394 0.410 0.399 0.384 0.362 0.421 0.304    0.376   11.28
67)  trichloroethene
           0.215 0.260 0.276 0.282 0.266 0.272 0.239 0.283 0.206    0.256   11.32
68)  ethyl acrylate
                                                                    0.000#  -1.00
69)  2-nitropropane
                     0.014 0.014 0.014 0.014       0.011           0.013   10.29
70)  2-chloroethyl vinyl ether
           0.174 0.166 0.182 0.189 0.192 0.173 0.161 0.182 0.135    0.173   10.12
71)  methyl methacrylate
           0.247 0.267 0.267 0.279 0.277 0.259 0.240 0.290          0.266    6.25
72)  1,2-dichloropropane
           0.215 0.294 0.290 0.296 0.287 0.284 0.253 0.304 0.214    0.271   12.91
73)  dibromomethane
           0.126 0.182 0.171 0.177 0.175 0.167 0.154 0.176          0.166   10.88
74)  methylcyclohexane
           0.445 0.379 0.435 0.457 0.444 0.420 0.375 0.462 0.330    0.416   10.84
75)  bromodichloromethane
           0.303 0.386 0.372 0.379 0.366 0.367 0.327 0.382 0.299    0.353    9.72
76)  cis-1,3-dichloropropene
           0.368 0.456 0.462 0.472 0.454 0.451 0.399 0.470 0.372    0.434    9.68
77)  toluene-d8 (s)
           0.853 0.830 0.941 1.008 0.977 0.913 0.853 1.034 0.958    0.930    7.81
78)  4-methyl-2-pentanone
           0.074 0.121 0.105 0.108 0.113 0.104 0.089 0.114          0.104   14.62
79)  toluene
           0.531 0.645 0.634 0.649 0.626 0.618 0.565 0.669 0.491    0.603   10.02
80)  3-methyl-1-butanol
           0.015 0.013 0.012 0.013 0.013 0.012 0.011 0.013 0.011    0.013    9.69
81)  trans-1,3-dichloropropene
           0.327 0.440 0.424 0.430 0.416 0.412 0.360 0.437 0.384    0.403    9.54
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** V2B4426-ICC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98015.D
Project: 508 West 24th Street, Manhattan, NY

```
 82)  ethyl methacrylate
            0.288 0.374 0.341 0.346 0.347 0.331 0.299 0.358 0.240   0.325   12.89
 83)  1,1,2-trichloroethane
            0.176 0.225 0.201 0.203 0.201 0.195 0.175 0.215 0.171   0.196    9.41
 84)  2-hexanone
                  0.093 0.092 0.093 0.094 0.091 0.077 0.098         0.091    7.13

 85) I   chlorobenzene-d5      ----------------ISTD--------------------
 86)  butyl ether
                                                                     0.000#  -1.00
 87)  tetrachloroethene
            0.225 0.285 0.279 0.297 0.284 0.273 0.266 0.301 0.180   0.265   14.71
 88)  1,3-dichloropropane
            0.411 0.510 0.458 0.478 0.471 0.447 0.433 0.491 0.405   0.456    7.78
 89)  butyl acetate
            0.185 0.165 0.189 0.196 0.199 0.188 0.174 0.190 0.179   0.185    5.87
 90)  3,3-dimethyl-1-butanol
            0.040 0.034 0.031 0.032 0.034 0.031 0.029 0.032 0.035   0.033    9.18
 91)  dibromochloromethane
            0.276 0.381 0.349 0.353 0.343 0.343 0.286 0.364 0.279   0.330   11.94
 92)  1,2-dibromoethane
            0.256 0.312 0.296 0.304 0.300 0.294 0.273 0.316 0.219   0.285   10.97
 93)  chlorobenzene
            0.725 0.903 0.837 0.862 0.834 0.823 0.749 0.878 0.756   0.818    7.56
 94)  1,1,1,2-tetrachloroethane
            0.286 0.362 0.319 0.332 0.323 0.312 0.298 0.348 0.263   0.316    9.67
 95)  ethylbenzene
            1.190 1.499 1.311 1.382 1.368 1.267 1.229 1.477 1.245   1.330    8.23
 96)  m,p-xylene
            0.457 0.584 0.527 0.549 0.538 0.514 0.494 0.578 0.457   0.522    8.87
 97)  o-xylene
            0.494 0.593 0.543 0.566 0.550 0.528 0.502 0.586 0.478   0.538    7.56
 98)  styrene
            0.810 1.012 0.914 0.950 0.925 0.887 0.816 0.980 0.777   0.897    9.05
 99)  bromoform
            0.250 0.304 0.272 0.274 0.270 0.272 0.213 0.274         0.266    9.79

100) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
101)  isopropylbenzene
            2.144 2.643 2.517 2.591 2.507 2.419 2.145 2.621 2.001   2.399    9.99
102)  4-bromofluorobenzene (s)
            0.837 0.741 0.731 0.785 0.765 0.722 0.689 0.822         0.762    6.64
103)  cyclohexanone
                        0.011 0.011 0.013 0.010 0.009 0.014         0.011   16.34
              ----- Linear regression -----  Coefficient =  0.9964
                Response Ratio = 0.01105 + 0.00955 *A

104)  bromobenzene
            0.627 0.793 0.711 0.725 0.699 0.691 0.619 0.744 0.607   0.691    9.05
105)  1,1,2,2-tetrachloroethane
            0.791 0.868 0.680 0.699 0.711 0.658 0.616 0.729 0.661   0.713   10.74
106)  trans-1,4-dichloro-2-butene
            0.174 0.211 0.191 0.195 0.197 0.189 0.162 0.209         0.191    8.63
107)  1,2,3-trichloropropane
            0.174 0.198 0.164 0.168 0.177 0.160 0.149 0.176         0.171    8.48
108)  n-propylbenzene
            2.523 3.055 2.718 2.842 2.782 2.641 2.476 3.004 2.308   2.705    9.09
109)  2-chlorotoluene
            0.543 0.675 0.617 0.629 0.610 0.614 0.542 0.636 0.540   0.601    8.03
110)  4-chlorotoluene
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** V2B4426-ICC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98015.D
Project: 508 West 24th Street, Manhattan, NY

```
            1.697 2.042 1.741 1.810 1.774 1.713 1.616 1.910 1.691   1.777    7.29
111)  1,3,5-trimethylbenzene
            1.857 2.284 2.017 2.092 2.054 1.975 1.828 2.200 1.732   2.004    8.90
112)  tert-butylbenzene
            1.588 1.956 1.868 1.923 1.842 1.835 1.579 1.941 1.509   1.782    9.77
113)  pentachloroethane
            0.433 0.538 0.461 0.477 0.461 0.461 0.403 0.493 0.394   0.458    9.72
114)  1,2,4-trimethylbenzene
            1.942 2.271 2.037 2.136 2.081 1.979 1.850 2.233 1.816   2.038    7.78
115)  sec-butylbenzene
            2.353 2.875 2.690 2.780 2.674 2.608 2.328 2.864 2.364   2.615    8.34
116)  1,3-dichlorobenzene
            1.269 1.467 1.268 1.301 1.293 1.243 1.161 1.371 1.195   1.285    7.09
117)  p-isopropyltoluene
            2.010 2.425 2.252 2.334 2.255 2.224 1.992 2.416 1.876   2.198    8.89
118)  1,4-dichlorobenzene
            1.327 1.555 1.318 1.354 1.319 1.306 1.179 1.356 1.223   1.326    7.86
119)  1,2-dichlorobenzene
            1.272 1.506 1.301 1.340 1.316 1.275 1.144 1.373 1.158   1.298    8.43
120)  n-butylbenzene
            0.964 1.189 1.170 1.210 1.143 1.155 1.009 1.223 0.906   1.108   10.53
121)  1,2-dibromo-3-chloropropane
                  0.164 0.135 0.142 0.149 0.139 0.116 0.147         0.141   10.32
122)  1,3,5-trichlorobenzene
            1.200 1.322 1.175 1.261 1.222 1.161 1.109 1.273 1.071   1.200    6.69
123)  1,2,4-trichlorobenzene
            1.070 1.180 1.069 1.181 1.148 1.059 1.008 1.162 0.979   1.095    6.90
124)  hexachlorobutadiene
            0.524 0.646 0.563 0.630 0.591 0.549 0.560 0.662 0.540   0.585    8.51
125)  naphthalene
            2.311 2.524 2.039 2.334 2.424 2.022 2.013 2.388 2.280   2.259    8.40
126)  1,2,3-trichlorobenzene
            1.047 1.122 0.880 1.043 1.046 0.867 0.938 1.056 0.911   0.990    9.27
127)  hexachloroethane
            0.412 0.472 0.492 0.508 0.466 0.500 0.393 0.490 0.354   0.454   12.02
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2B4426.M         Thu Jul 26 11:43:40 2012   MS2B
```

6.7.1

6

Initial Calibration Verification

Job Number: JB15113 **Sample:** V2B4426-ICV4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98021.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\2B98021.D                    Vial: 14
Acq On    : 25 Jul 2012   4:57 pm                     Operator: dezareer
Sample    : icv4426-50                                Inst    : MS2B
Misc      : MS32719,V2B4426,W,,,,1                    Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B4426.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Thu Jul 26 09:34:46 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	107	0.00	8.22
2	M	tertiary butyl alcohol	0.882	0.935	-6.0	104	0.00	8.35
3	M	1,4-dioxane	0.082	0.084	-2.4	98	0.00	12.28
4	I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	10.69
5	M	chlorodifluoromethane	0.415	0.429	-3.4	97	0.00	4.39
6	M	dichlorodifluoromethane	0.471	0.507	-7.6	100	-0.01	4.37
7	m	chlorotrifluoroethene		----------NA----------				
8	M	chloromethane	0.539	0.517	4.1	100	-0.01	4.75
9	M	vinyl chloride	0.518	0.548	-5.8	102	0.00	5.05
10	M	bromomethane	0.328	0.330	-0.6	102	-0.01	5.78
11	M	chloroethane	0.269	0.273	-1.5	101	-0.01	5.99
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.583	0.626	-7.4	101	-0.01	6.55
14		Pentane		----------NA----------				
15	M	ethyl ether	0.200	0.222	-11.0	103	0.00	7.03
16	M	acrolein	0.069	0.097	-40.6#	125	0.00	7.23
17		2-chloropropane	0.767	0.765	0.3	102	-0.01	7.21
18		1,2-dichloro-1,2,2-triflu		----------NA----------				
19	M	1,1-dichloroethene	0.317	0.332	-4.7	98	0.00	7.48
20	M	acetone	0.096	0.109	-13.5	107	0.00	7.50
21	M	allyl chloride	0.214	0.231	-7.9	104	0.00	8.06
22	M	acetonitrile	0.023	0.024	-4.3	105	0.00	7.95
23	M	iodomethane	0.601	0.651	-8.3	99	0.00	7.76
24	M	iso-butyl alcohol	0.005	0.005#	0.0	99	0.00	10.98
25	M	carbon disulfide	1.077	1.143	-6.1	97	0.00	7.92
26	M	methylene chloride	0.356	0.376	-5.6	100	0.00	8.25
		----------	True	Calc.	% Drift		----------	
27	M	methyl acetate	50.000	49.638	0.7	99	-0.01	8.05
		----------	AvgRF	CCRF	% Dev		----------	
28		1-chloropropane	0.789	0.745	5.6	100	0.00	8.33
29	M	methyl tert butyl ether	1.075	1.152	-7.2	102	0.00	8.69
30	M	trans-1,2-dichloroethene	0.357	0.352	1.4	97	0.00	8.70
31	M	di-isopropyl ether	1.260	1.303	-3.4	99	0.00	9.37
32	M	2-butanone	0.040	0.043	-7.5	103	0.00	10.07
33	M	1,1-dichloroethane	0.645	0.723	-12.1	102	0.00	9.31
34	M	chloroprene	0.490	0.570	-16.3	108	0.00	9.45
35	M	acrylonitrile	0.138	0.156	-13.0	107	0.00	8.58
36	M	vinyl acetate	0.058	0.068	-17.2	111	0.00	9.32
37	M	ethyl tert-butyl ether	1.205	1.291	-7.1	100	0.00	9.87

Initial Calibration Verification

Job Number: JB15113 **Sample:** V2B4426-ICV4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98021.D
Project: 508 West 24th Street, Manhattan, NY

38	M	ethyl acetate	0.056	0.059	-5.4	95	0.00	10.12
39	M	2,2-dichloropropane	0.541	0.528	2.4	96	0.00	10.13
40	M	cis-1,2-dichloroethene	0.385	0.399	-3.6	101	0.00	10.10
41	M	propionitrile	0.052	0.058	-11.5	107	0.00	10.11
42	M	bromochloromethane	0.191	0.204	-6.8	101	0.00	10.41
43	M	tetrahydrofuran	0.150	0.153	-2.0	106	0.00	10.49
44	M	chloroform	0.627	0.673	-7.3	103	0.00	10.48
45		t-butyl formate	0.379	0.406	-7.1	100	0.00	10.56
46	S	dibromofluoromethane (s)	0.355	0.357	-0.6	99	0.00	10.69
47	S	1,2-dichloroethane-d4 (s)	0.407	0.434	-6.6	100	0.00	11.12
48	M	freon 113	0.275	0.287	-4.4	95	0.00	7.49
49	M	methacrylonitrile	0.243	0.244	-0.4	104	0.00	10.34
50	M	1,1,1-trichloroethane	0.531	0.578	-8.9	101	0.00	10.79
51	M	Cyclohexane	0.509	0.532	-4.5	100	0.00	10.90
52		tert amyl alcohol		----------NA----------				
53	I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.00	11.60
54		tert amyl ethyl ether		----------NA----------				
55	M	Di-isobutylene		----------NA----------				
56	M	epichlorohydrin	0.024	0.026	-8.3	103	0.00	12.99
57	M	n-butyl alcohol	0.008	0.008#	0.0	99	0.00	11.69
58	M	carbon tetrachloride	0.368	0.403	-9.5	102	0.00	11.02
59	M	1,1-dichloropropene	0.353	0.381	-7.9	98	0.00	10.98
60	M	hexane	0.320	0.360	-12.5	105	0.00	9.11
61	M	benzene	1.025	1.078	-5.2	99	0.00	11.24
62		2,2,4-trimethylpentane	0.933	0.967	-3.6	98	0.00	11.32
63	M	tert-amyl methyl ether	0.830	0.876	-5.5	103	0.00	11.31
64	M	heptane	0.189	0.206	-9.0	100	0.00	11.48
65	M	isopropyl acetate	0.473	0.493	-4.2	101	0.00	11.31
66	M	1,2-dichloroethane	0.376	0.412	-9.6	101	0.00	11.21
67	M	trichloroethene	0.256	0.284	-10.9	101	0.00	11.94
68		ethyl acrylate		----------NA----------				
69	M	2-nitropropane	0.013	0.015	-15.4	105	0.00	12.99
70	M	2-chloroethyl vinyl ether	0.173	0.186	-7.5	98	0.00	12.68
71	M	methyl methacrylate	0.266	0.276	-3.8	99	0.00	12.21
72	M	1,2-dichloropropane	0.271	0.293	-8.1	99	0.00	12.18
73	M	dibromomethane	0.166	0.179	-7.8	101	0.00	12.31
74	M	methylcyclohexane	0.416	0.443	-6.5	97	0.00	12.20
75	M	bromodichloromethane	0.353	0.374	-5.9	99	0.00	12.44
76	M	cis-1,3-dichloropropene	0.434	0.436	-0.5	92	0.00	12.89
77	S	toluene-d8 (s)	0.930	0.983	-5.7	97	0.00	13.19
78	M	4-methyl-2-pentanone	0.104	0.114	-9.6	105	0.00	12.99
79	M	toluene	0.603	0.641	-6.3	99	0.00	13.26
80	M	3-methyl-1-butanol	0.013	0.013	0.0	103	0.00	12.99
81	M	trans-1,3-dichloropropene	0.403	0.424	-5.2	98	0.00	13.41
82	M	ethyl methacrylate	0.325	0.343	-5.5	99	0.00	13.44
83	M	1,1,2-trichloroethane	0.196	0.203	-3.6	100	0.00	13.61
84	M	2-hexanone	0.091	0.093	-2.2	100	0.00	13.79
85	I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	14.60
86	m	butyl ether		----------NA----------				
87	M	tetrachloroethene	0.265	0.287	-8.3	97	0.00	13.82
88	M	1,3-dichloropropane	0.456	0.469	-2.9	99	0.00	13.78
89	M	butyl acetate	0.185	0.193	-4.3	99	0.00	13.88
90		3,3-dimethyl-1-butanol	0.033	0.033	0.0	104	0.00	13.94
91	M	dibromochloromethane	0.330	0.342	-3.6	97	0.00	14.03
92	M	1,2-dibromoethane	0.285	0.299	-4.9	99	0.00	14.17
93	M	chlorobenzene	0.818	0.848	-3.7	99	0.00	14.62
94	M	1,1,1,2-tetrachloroethane	0.316	0.335	-6.0	101	0.00	14.68
95	M	ethylbenzene	1.330	1.363	-2.5	99	0.00	14.69

Initial Calibration Verification

Job Number: JB15113 **Sample:** V2B4426-ICV4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B98021.D
Project: 508 West 24th Street, Manhattan, NY

96	M	m,p-xylene	0.522	0.539	-3.3	99	0.00	14.79
97	M	o-xylene	0.538	0.561	-4.3	100	0.00	15.18
98	M	styrene	0.897	0.925	-3.1	98	0.00	15.18
99	M	bromoform	0.266	0.274	-3.0	101	0.00	15.39
100	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	16.75
101	M	isopropylbenzene	2.399	2.584	-7.7	100	0.00	15.50
102	S	4-bromofluorobenzene (s)	0.762	0.753	1.2	96	0.00	15.67
		----------	True	Calc.	% Drift	----------		
103	M	cyclohexanone	500.000	544.332	-8.9	104	0.00	15.61
		----------	AvgRF	CCRF	% Dev	----------		
104	M	bromobenzene	0.691	0.713	-3.2	99	0.00	15.85
105	M	1,1,2,2-tetrachloroethane	0.713	0.688	3.5	99	0.00	15.73
106	M	trans-1,4-dichloro-2-bute	0.191	0.196	-2.6	101	0.00	15.78
107	M	1,2,3-trichloropropane	0.171	0.169	1.2	101	0.00	15.80
108	M	n-propylbenzene	2.705	2.847	-5.2	101	0.00	15.88
109	M	2-chlorotoluene	0.601	0.618	-2.8	99	0.00	16.00
110	M	4-chlorotoluene	1.777	1.753	1.4	97	0.00	16.09
111	M	1,3,5-trimethylbenzene	2.004	2.078	-3.7	100	0.00	16.02
112	M	tert-butylbenzene	1.782	1.935	-8.6	101	0.00	16.35
113	M	pentachloroethane	0.458	0.496	-8.3	105	0.00	16.40
114	M	1,2,4-trimethylbenzene	2.038	2.161	-6.0	102	0.00	16.38
115	M	sec-butylbenzene	2.615	2.774	-6.1	100	0.00	16.55
116	M	1,3-dichlorobenzene	1.285	1.303	-1.4	101	0.00	16.70
117	M	p-isopropyltoluene	2.198	2.408	-9.6	104	0.00	16.66
118	M	1,4-dichlorobenzene	1.326	1.329	-0.2	99	0.00	16.78
119	M	1,2-dichlorobenzene	1.298	1.342	-3.4	101	0.00	17.14
120	M	n-butylbenzene	1.108	1.200	-8.3	100	0.00	17.05
121	M	1,2-dibromo-3-chloropropa	0.141	0.147	-4.3	104	0.00	17.88
122		1,3,5-trichlorobenzene	1.200	1.304	-8.7	104	0.00	18.11
123	M	1,2,4-trichlorobenzene	1.095	1.210	-10.5	103	0.00	18.74
124	M	hexachlorobutadiene	0.585	0.613	-4.8	98	0.00	18.89
125	M	naphthalene	2.259	2.361	-4.5	102	0.00	19.02
126	M	1,2,3-trichlorobenzene	0.990	1.045	-5.6	101	0.00	19.27
127	M	hexachloroethane	0.454	0.517	-13.9	102	0.00	17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B98015.D M2B4426.M Thu Jul 26 11:43:12 2012 MS2B

6.7.2

6

Continuing Calibration Summary

Job Number: JB15113 **Sample:** V2B4480-CC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B99212.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2B\v2b4480\2B99212.D       Vial: 3
Acq On    : 31 Aug 2012  10:03 am                     Operator: dezareer
Sample    : cc4426-50                                 Inst    : MS2B
Misc      : MS34879,V2B4480,W,,,,1                    Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B4426.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Thu Jul 26 09:34:46 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	91	-0.01	8.21
2	M	tertiary butyl alcohol	0.882	0.930	-5.4	88	0.00	8.34
3	M	1,4-dioxane	0.082	0.092	-12.2	91	-0.01	12.28
4	I	pentafluorobenzene	1.000	1.000	0.0	106	-0.01	10.68
5	M	chlorodifluoromethane	0.415	0.373	10.1	88	0.00	4.39
6	M	dichlorodifluoromethane	0.471	0.514	-9.1	106	0.00	4.38
7	m	chlorotrifluoroethene		----------NA----------				
8	M	chloromethane	0.539	0.500	7.2	101	0.00	4.76
9	M	vinyl chloride	0.518	0.580	-12.0	112	0.00	5.05
10	M	bromomethane	0.328	0.354	-7.9	115	-0.01	5.78
11	M	chloroethane	0.269	0.267	0.7	103	-0.01	5.99
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.583	0.566	2.9	96	0.00	6.55
14		Pentane		----------NA----------				
15	M	ethyl ether	0.200	0.203	-1.5	99	0.00	7.03
16	M	acrolein	0.069	0.059	14.5	81	0.00	7.23
17		2-chloropropane	0.767	0.619	19.3	86	-0.01	7.21
18		1,2-dichloro-1,2,2-triflu		----------NA----------				
19	M	1,1-dichloroethene	0.317	0.307	3.2	95	-0.01	7.47
20	M	acetone	0.096	0.085	11.5	86	-0.01	7.50
21	M	allyl chloride	0.214	0.206	3.7	97	0.00	8.06
22	M	acetonitrile	0.023	0.020	13.0	88	0.00	7.94
23	M	iodomethane	0.601	0.635	-5.7	101	-0.02	7.75
24	M	iso-butyl alcohol	0.005	0.004#	20.0	90	-0.02	10.97
25	M	carbon disulfide	1.077	1.056	1.9	94	-0.01	7.91
26	M	methylene chloride	0.356	0.362	-1.7	101	0.00	8.25
		----------	True	Calc.	% Drift	----------		
27	M	methyl acetate	50.000	47.297	5.4	98	-0.01	8.05
		----------	AvgRF	CCRF	% Dev	----------		
28		1-chloropropane	0.789	0.601	23.8#	84	-0.01	8.32
29	M	methyl tert butyl ether	1.075	1.048	2.5	97	-0.01	8.69
30	M	trans-1,2-dichloroethene	0.357	0.334	6.4	96	0.00	8.70
31	M	di-isopropyl ether	1.260	1.133	10.1	89	0.00	9.37
32	M	2-butanone	0.040	0.035	12.5	89	0.00	10.07
33	M	1,1-dichloroethane	0.645	0.619	4.0	91	0.00	9.30
34	M	chloroprene	0.490	0.428	12.7	85	0.00	9.45
35	M	acrylonitrile	0.138	0.124	10.1	89	-0.01	8.57
36	M	vinyl acetate	0.058	0.057	1.7	96	0.00	9.31
37	M	ethyl tert-butyl ether	1.205	1.147	4.8	93	0.00	9.87

Continuing Calibration Summary

Job Number: JB15113 **Sample:** V2B4480-CC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B99212.D
Project: 508 West 24th Street, Manhattan, NY

38	M	ethyl acetate	0.056	0.047	16.1	79	-0.01	10.11
39	M	2,2-dichloropropane	0.541	0.524	3.1	99	0.00	10.12
40	M	cis-1,2-dichloroethene	0.385	0.376	2.3	99	0.00	10.09
41	M	propionitrile	0.052	0.046	11.5	89	-0.01	10.11
42	M	bromochloromethane	0.191	0.198	-3.7	102	-0.01	10.41
43	M	tetrahydrofuran	0.150	0.114	24.0#	83	-0.01	10.48
44	M	chloroform	0.627	0.614	2.1	98	-0.01	10.48
45		t-butyl formate	0.379	0.323	14.8	83	0.00	10.56
46	S	dibromofluoromethane (s)	0.355	0.379	-6.8	110	-0.01	10.68
47	S	1,2-dichloroethane-d4 (s)	0.407	0.427	-4.9	102	0.00	11.12
48	M	freon 113	0.275	0.290	-5.5	100	0.00	7.50
49	M	methacrylonitrile	0.243	0.183	24.7#	82	0.00	10.34
50	M	1,1,1-trichloroethane	0.531	0.531	0.0	97	0.00	10.79
51	M	Cyclohexane	0.509	0.482	5.3	94	0.00	10.90
52		tert amyl alcohol		----------NA----------				
53	I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	11.60
54		tert amyl ethyl ether		----------NA----------				
55	M	Di-isobutylene		----------NA----------				
56	M	epichlorohydrin	0.024	0.022	8.3	94	0.00	12.99
57	M	n-butyl alcohol	0.008	0.007#	12.5	87	0.00	11.69
58	M	carbon tetrachloride	0.368	0.363	1.4	100	0.00	11.01
59	M	1,1-dichloropropene	0.353	0.330	6.5	92	0.00	10.97
60	M	hexane	0.320	0.293	8.4	93	-0.01	9.11
61	M	benzene	1.025	0.958	6.5	96	0.00	11.23
62		2,2,4-trimethylpentane	0.933	0.846	9.3	93	0.00	11.31
63	M	tert-amyl methyl ether	0.830	0.752	9.4	96	-0.01	11.30
64	M	heptane	0.189	0.169	10.6	89	0.00	11.48
65	M	isopropyl acetate	0.473	0.420	11.2	94	0.00	11.31
66	M	1,2-dichloroethane	0.376	0.370	1.6	98	-0.01	11.20
67	M	trichloroethene	0.256	0.259	-1.2	99	0.00	11.94
68		ethyl acrylate		----------NA----------				
69	M	2-nitropropane	0.013	0.012	7.7	89	0.00	12.99
70	M	2-chloroethyl vinyl ether	0.173	0.173	0.0	99	0.00	12.68
71	M	methyl methacrylate	0.266	0.247	7.1	96	0.00	12.20
72	M	1,2-dichloropropane	0.271	0.274	-1.1	100	0.00	12.17
73	M	dibromomethane	0.166	0.177	-6.6	108	0.00	12.31
74	M	methylcyclohexane	0.416	0.414	0.5	98	0.00	12.20
75	M	bromodichloromethane	0.353	0.374	-5.9	107	0.00	12.44
76	M	cis-1,3-dichloropropene	0.434	0.447	-3.0	103	0.00	12.89
77	S	toluene-d8 (s)	0.930	1.073	-15.4	115	0.00	13.19
78	M	4-methyl-2-pentanone	0.104	0.098	5.8	98	0.00	12.99
79	M	toluene	0.603	0.612	-1.5	102	0.00	13.26
80	M	3-methyl-1-butanol	0.013	0.011	15.4	92	0.00	12.99
81	M	trans-1,3-dichloropropene	0.403	0.418	-3.7	105	0.00	13.41
82	M	ethyl methacrylate	0.325	0.320	1.5	100	0.00	13.44
83	M	1,1,2-trichloroethane	0.196	0.206	-5.1	110	0.00	13.60
84	M	2-hexanone	0.091	0.084	7.7	98	0.00	13.79
85	I	chlorobenzene-d5	1.000	1.000	0.0	121	0.00	14.59
86	m	butyl ether		----------NA----------				
87	M	tetrachloroethene	0.265	0.258	2.6	105	0.00	13.82
88	M	1,3-dichloropropane	0.456	0.429	5.9	108	0.00	13.78
89	M	butyl acetate	0.185	0.165	10.8	102	0.00	13.88
90		3,3-dimethyl-1-butanol	0.033	0.026	21.2#	97	0.00	13.94
91	M	dibromochloromethane	0.330	0.336	-1.8	115	0.00	14.02
92	M	1,2-dibromoethane	0.285	0.287	-0.7	114	0.00	14.17
93	M	chlorobenzene	0.818	0.781	4.5	109	0.00	14.62
94	M	1,1,1,2-tetrachloroethane	0.316	0.317	-0.3	115	0.00	14.67
95	M	ethylbenzene	1.330	1.235	7.1	108	0.00	14.69

Continuing Calibration Summary

Job Number: JB15113 **Sample:** V2B4480-CC4426
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2B99212.D
Project: 508 West 24th Street, Manhattan, NY

96	M	m,p-xylene	0.522	0.490	6.1	107	0.00	14.79
97	M	o-xylene	0.538	0.512	4.8	109	0.00	15.17
98	M	styrene	0.897	0.837	6.7	106	0.00	15.17
99	M	bromoform	0.266	0.258	3.0	114	0.00	15.39
100	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	16.75
101	M	isopropylbenzene	2.399	2.311	3.7	107	0.00	15.50
102	S	4-bromofluorobenzene (s)	0.762	0.774	-1.6	118	0.00	15.66
		----------	True	Calc.	% Drift	----------		
103	M	cyclohexanone	500.000	819.713	-63.9#	180	0.00	15.61
		----------	AvgRF	CCRF	% Dev	----------		
104	M	bromobenzene	0.691	0.678	1.9	112	0.00	15.84
105	M	1,1,2,2-tetrachloroethane	0.713	0.656	8.0	112	0.00	15.72
106	M	trans-1,4-dichloro-2-bute	0.191	0.166	13.1	102	0.00	15.77
107	M	1,2,3-trichloropropane	0.171	0.162	5.3	116	0.00	15.80
108	M	n-propylbenzene	2.705	2.606	3.7	110	0.00	15.88
109	M	2-chlorotoluene	0.601	0.592	1.5	113	0.00	16.00
110	M	4-chlorotoluene	1.777	1.680	5.5	111	0.00	16.09
111	M	1,3,5-trimethylbenzene	2.004	1.917	4.3	110	0.00	16.02
112	M	tert-butylbenzene	1.782	1.713	3.9	107	0.00	16.34
113	M	pentachloroethane	0.458	0.453	1.1	114	0.00	16.39
114	M	1,2,4-trimethylbenzene	2.038	1.956	4.0	110	0.00	16.38
115	M	sec-butylbenzene	2.615	2.507	4.1	108	0.00	16.55
116	M	1,3-dichlorobenzene	1.285	1.214	5.5	112	0.00	16.69
117	M	p-isopropyltoluene	2.198	2.103	4.3	108	0.00	16.66
118	M	1,4-dichlorobenzene	1.326	1.243	6.3	110	0.00	16.77
119	M	1,2-dichlorobenzene	1.298	1.241	4.4	111	0.00	17.14
120	M	n-butylbenzene	1.108	1.088	1.8	108	0.00	17.05
121	M	1,2-dibromo-3-chloropropa	0.141	0.128	9.2	108	0.00	17.87
122		1,3,5-trichlorobenzene	1.200	1.125	6.2	107	0.00	18.10
123	M	1,2,4-trichlorobenzene	1.095	1.006	8.1	102	0.00	18.74
124	M	hexachlorobutadiene	0.585	0.514	12.1	98	0.00	18.89
125	M	naphthalene	2.259	1.908	15.5	98	0.00	19.02
126	M	1,2,3-trichlorobenzene	0.990	0.884	10.7	101	0.00	19.26
127	M	hexachloroethane	0.454	0.447	1.5	105	0.00	17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B98015.D M2B4426.M Fri Aug 31 14:55:38 2012 ACCNJ

6.7.3

6

Initial Calibration Summary

Job Number: JB15113 **Sample:** VY5252-ICC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122454.D
Project: 508 West 24th Street, Manhattan, NY

Response Factor Report MSY

```
Method       : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri May 04 14:44:51 2012
Response via : Initial Calibration

Calibration Files
5   =Y122449.D   10  =Y122448.D   0.5 =Y122452.D   50  =Y122454.D
100 =Y122456.D   1   =Y122451.D   200 =Y122457.D   20  =Y122453.D
2   =Y122450.D   75  =Y122455.D       =                =

Compound
        5     10    0.5   50    100   1     200   20    2     75     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.090 0.094       0.115 0.112       0.102 0.116       0.104  0.105    9.75
3)  tertiary butyl alcohol
     1.187 1.182       1.282 1.234 1.106 1.129 1.268 1.137 1.187  1.190    5.15

4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  freon 141b
     0.425 0.463       0.388 0.418 0.429 0.318 0.384 0.435 0.404  0.407   10.16
6)  freon 142b
     0.378 0.413       0.348 0.312 0.369 0.280 0.350 0.379 0.359  0.354   11.03
7)  freon 143a
     0.177 0.207       0.158 0.168 0.158 0.189 0.164 0.161 0.166  0.172    9.59
8)  chlorodifluoromethane
     0.292 0.328       0.278 0.290       0.275 0.282 0.256 0.288  0.286    7.12
9)  dichlorodifluoromethane
     0.406 0.453       0.388 0.395       0.394 0.376 0.436 0.400  0.406    6.33
10)  chloromethane
     0.474 0.493 0.458 0.438 0.441 0.468 0.426 0.459 0.569 0.443  0.467    8.77
11)  vinyl chloride
     0.392 0.420       0.365 0.373 0.353 0.359 0.380 0.447 0.373  0.385    7.96
12)  bromomethane
     0.330 0.330       0.284 0.271 0.324       0.310 0.389 0.272  0.314   12.45
13)  chloroethane
     0.225 0.240       0.204 0.204             0.216 0.267 0.205  0.223   10.53
14)  Vinyl Bromide
     0.265 0.270       0.235 0.297 0.244 0.251 0.236 0.242 0.242  0.254    8.03
15)  trichlorofluoromethane
     0.488 0.528       0.444 0.447 0.430 0.433 0.453 0.582 0.450  0.473   10.88
16)  ethyl ether
     0.204 0.212       0.211 0.213 0.251 0.204 0.203 0.231 0.211  0.215    7.30
17)  2-chloropropane
     0.121 0.138       0.123 0.127       0.118 0.128 0.132 0.124  0.126    5.19
18)  acrolein
     0.060 0.061 0.066 0.059 0.064 0.061 0.062 0.057 0.057 0.060  0.061    4.67
19)  1,1-dichloroethene
     0.487 0.533       0.443 0.427       0.392 0.467       0.443  0.456    9.91
20)  acetone
     0.026 0.033       0.026 0.028       0.026 0.029       0.029  0.028    8.16
21)  allyl chloride
     0.189 0.214       0.188 0.193       0.178 0.197 0.181 0.189  0.191    5.77
22)  acetonitrile
     0.029 0.032       0.027 0.033       0.029 0.031       0.037  0.031    9.74
23)  iodomethane
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** VY5252-ICC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122454.D
Project: 508 West 24th Street, Manhattan, NY

	0.594	0.671	0.575	0.632	0.645	0.627	0.611	0.653	0.638	0.634	0.628	4.50
24)	iso-butyl alcohol											
	0.014	0.013		0.012	0.012		0.010	0.011	0.011	0.012	0.012	9.60
25)	carbon disulfide											
	0.955	1.066	0.970	0.922	0.933	0.971	0.866	0.958	1.001	0.931	0.957	5.49
26)	1-chloropropane											
	0.023	0.026		0.024	0.025		0.023	0.027		0.025	0.025	5.95
27)	methylene chloride											
	0.401	0.451		0.407	0.399		0.364	0.453		0.399	0.411	7.70
28)	methyl acetate											
	0.034	0.044		0.048	0.052		0.048	0.044		0.051	0.046	13.60
29)	methyl tert butyl ether											
	1.080	1.143	1.212	1.125	1.128	1.227	1.051	1.097	1.165	1.118	1.135	4.85
30)	trans-1,2-dichloroethene											
	0.344	0.370	0.335	0.329	0.326	0.405	0.300	0.352	0.371	0.327	0.346	8.66
31)	di-isopropyl ether											
	1.195	1.292		1.190	1.187	1.360	1.115	1.186	1.139	1.193	1.206	6.23
32)	ethyl tert-butyl ether											
	1.240	1.316		1.252	1.250	1.371	1.173	1.231	1.174	1.256	1.251	4.99
33)	2-butanone											
	0.033	0.042		0.037	0.040		0.037	0.038		0.040	0.038	7.01
34)	1,1-dichloroethane											
	0.609	0.673	0.594	0.604	0.595	0.677	0.549	0.642	0.660	0.601	0.620	6.65
35)	chloroprene											
	0.472	0.520		0.432	0.434	0.466	0.404	0.454	0.447	0.437	0.452	7.25
36)	acrylonitrile											
	0.097	0.101		0.100	0.101	0.082	0.092	0.098	0.092	0.102	0.096	6.79
37)	vinyl acetate											
		0.048		0.055	0.059		0.055	0.049		0.058	0.054	8.28
38)	ethyl acetate											
	0.035	0.044		0.041	0.043		0.040	0.039		0.043	0.041	7.93
39)	2,2-dichloropropane											
	0.515	0.558	0.497	0.463	0.462	0.533	0.430	0.495	0.556	0.462	0.497	8.72
40)	cis-1,2-dichloroethene											
	0.406	0.430	0.414	0.404	0.399	0.428	0.371	0.423	0.446	0.404	0.412	5.07
41)	propionitrile											
	0.039	0.041		0.041	0.041		0.039	0.042	0.036	0.042	0.040	5.08
42)	bromochloromethane											
	0.204	0.217		0.218	0.217	0.195	0.203	0.213	0.216	0.215	0.211	3.86
43)	tetrahydrofuran											
	0.124	0.114		0.101	0.100		0.093	0.104		0.102	0.105	9.81
44)	chloroform											
	0.671	0.710	0.798	0.651	0.642	0.801	0.596	0.688	0.753	0.646	0.696	9.94
45)	tert-Butyl Formate											
	0.129	0.137		0.150	0.165		0.167	0.124		0.161	0.148	12.02
46)	dibromofluoromethane (s)											
	0.379	0.354		0.351	0.341		0.330	0.349		0.352	0.351	4.30
47)	1,2-dichloroethane-d4 (s)											
	0.421	0.397		0.381	0.368		0.347	0.383		0.380	0.383	6.04
48)	freon 113											
	0.244	0.264		0.218	0.223		0.209	0.214		0.217	0.227	8.70
49)	methacrylonitrile											
	0.114	0.127		0.126	0.131		0.124	0.123	0.098	0.130	0.122	8.91
50)	1,1,1-trichloroethane											
	0.525	0.564	0.481	0.485	0.488	0.518	0.454	0.507	0.555	0.487	0.506	6.82
51)	Cyclohexane											
	0.456	0.491	0.427	0.394	0.383	0.420	0.355	0.397	0.468	0.389	0.418	10.20
52)	2,2,4-trimethylpentane											
	1.138	1.229		0.938	0.924	1.218	0.855	0.956	1.043	0.932	1.026	13.44
53)	tert-amyl methyl ether											

```
      1.180 1.212       1.115 1.080 1.350 0.995 1.105 1.137 1.105  1.142    8.67

54) I   1,4-difluorobenzene   ----------------ISTD--------------------
55)  epichlorohydrin
      0.022 0.022       0.021 0.022       0.021 0.020       0.023  0.022    3.76
56)  n-butyl alcohol
      0.007 0.006       0.007 0.007       0.007 0.006       0.007  0.007#   4.86
57)  carbon tetrachloride
      0.325 0.343 0.308 0.297 0.298 0.325 0.274 0.308 0.355 0.297  0.313    7.76
58)  1,1-dichloropropene
      0.319 0.333 0.306 0.287 0.286 0.343 0.262 0.309 0.345 0.287  0.308    9.01
59)  hexane
      0.313 0.276       0.222 0.219       0.203 0.224       0.219  0.239   16.56
            ----- Linear regression -----  Coefficient =  0.9986
              Response Ratio = 0.01748 + 0.20149 *A

60)  Tert Amyl Alcohol
      0.031 0.032       0.030 0.032 0.033 0.029 0.030 0.033 0.032  0.031    4.57
61)  benzene
      1.009 1.051 1.127 0.951 0.918 1.148 0.826 1.030 1.157 0.925  1.014   10.85
62)  heptane
      0.159 0.169       0.137 0.140 0.154 0.131 0.137 0.140 0.137  0.145    8.72
63)  isopropyl acetate
      0.090 0.100       0.093 0.096       0.087 0.098 0.078 0.094  0.092    7.69
64)  1,2-dichloroethane
      0.354 0.362 0.336 0.353 0.345 0.396 0.318 0.363 0.373 0.346  0.355    5.97
65)  trichloroethene
      0.256 0.271       0.246 0.248 0.271 0.229 0.264 0.268 0.248  0.256    5.50
66)  ethyl acrylate
      0.243 0.266       0.278 0.286 0.262 0.268 0.259 0.296 0.288  0.272    6.08
67)  2-nitropropane
      0.082 0.081       0.079 0.083       0.077 0.081 0.083 0.082  0.081    2.48
68)  2-chloroethyl vinyl ether
      0.072 0.075       0.079 0.082 0.068 0.079 0.074 0.066 0.082  0.075    7.97
69)  methyl methacrylate
      0.157 0.158       0.161 0.166       0.152 0.167 0.152 0.165  0.160    3.66
70)  1,2-dichloropropane
      0.258 0.269       0.260 0.255 0.287 0.232 0.273 0.291 0.254  0.264    6.79
71)  methylcyclohexane
      0.380 0.399       0.321 0.317 0.390 0.291 0.328 0.335 0.320  0.342   11.01
72)  Tert-amyl ethyl ether
      0.642 0.663       0.656 0.647       0.601 0.662       0.654  0.647    3.32
73)  dibromomethane
      0.165 0.169 0.123 0.171 0.172 0.175 0.162 0.172 0.171 0.170  0.165    9.29
74)  bromodichloromethane
      0.364 0.382 0.364 0.386 0.388 0.411 0.366 0.396 0.393 0.384  0.384    4.00
75)  cis-1,3-dichloropropene
      0.449 0.455 0.404 0.463 0.461 0.495 0.430 0.474 0.475 0.458  0.456    5.49
76)  toluene-d8 (s)
      1.035 0.944       0.871 0.822       0.765 0.895       0.860  0.885    9.80
77)  4-methyl-2-pentanone
      0.094 0.092       0.093 0.096       0.088 0.100       0.095  0.094    3.99
78)  toluene
      1.103 1.144 1.212 1.049 1.025 1.261 0.921 1.140 1.222 1.030  1.110    9.54
79)  3-methyl-1-butanol
      0.007 0.007       0.007 0.007 0.006 0.006 0.006 0.006 0.007  0.007#   7.46
80)  trans-1,3-dichloropropene
      0.390 0.406       0.413 0.412 0.410 0.382 0.421 0.401 0.407  0.405    3.00
81)  ethyl methacrylate
      0.321 0.320       0.327 0.336 0.355 0.312 0.344 0.315 0.329  0.329    4.26
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** VY5252-ICC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122454.D
Project: 508 West 24th Street, Manhattan, NY

```
 82)  1,1,2-trichloroethane
       0.197 0.206 0.154 0.203 0.204 0.224 0.190 0.214 0.215 0.203  0.201    9.48
 83)  2-hexanone
       0.097 0.096       0.091 0.097       0.081 0.101       0.095  0.094    6.77

 84) I   chlorobenzene-d5      ----------------ISTD---------------------
 85)  tetrachloroethene
       0.335 0.360 0.340 0.311 0.314 0.358 0.289 0.346 0.380 0.313  0.335    8.24
 86)  1,3-dichloropropane
       0.436 0.438 0.406 0.427 0.417 0.483 0.381 0.455 0.465 0.419  0.433    6.89
 87)  butyl acetate
       0.173 0.178       0.173 0.171       0.153 0.171 0.144 0.172  0.167    7.02
 88)  dibromochloromethane
       0.330 0.335 0.298 0.348 0.356 0.369 0.335 0.367 0.340 0.348  0.343    6.02
 89)  1,2-dibromoethane
       0.279 0.283 0.231 0.284 0.289 0.298 0.270 0.295 0.286 0.285  0.280    6.73
 90)  3,3-Dimethyl-1-Butanol
       0.029 0.026       0.026 0.027       0.025 0.025 0.023 0.027  0.026    6.45
 91)  chlorobenzene
       0.838 0.862       0.826 0.815 0.994 0.752 0.909 0.954 0.809  0.862    8.89
 92)  1,1,1,2-tetrachloroethane
       0.307 0.318 0.303 0.308 0.302 0.357 0.279 0.348 0.340 0.301  0.316    7.71
 93)  ethylbenzene
       1.340 1.401 1.472 1.245 1.221 1.511 1.097 1.412 1.526 1.225  1.345   10.67
 94)  m,p-xylene
       0.527 0.544 0.554 0.482 0.464 0.609 0.415 0.550 0.586 0.470  0.520   11.62
 95)  o-xylene
       0.537 0.555       0.520 0.516 0.593 0.470 0.586 0.590 0.514  0.542    7.74
 96)  styrene
       0.896 0.937       0.900 0.880 1.019 0.789 1.010 0.963 0.884  0.920    7.79
 97)  bromoform
       0.206 0.219 0.193 0.230 0.242 0.246 0.229 0.250 0.219 0.235  0.227    7.94

 98) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 99)  isopropylbenzene
       2.639 2.811       2.479 2.508 2.997 2.314 2.833 2.932 2.477  2.666    8.89
100)  4-bromofluorobenzene (s)
       0.999 0.783       0.843 0.808       0.772 0.847       0.836  0.841    8.99
101)  bromobenzene
       0.778 0.816 0.768 0.772 0.762 0.926 0.705 0.877 0.871 0.758  0.803    8.45
102)  cyclohexanone
       0.135 0.129       0.083 0.097       0.084 0.118       0.095  0.106   20.11
             ----- Linear regression -----  Coefficient =  0.9930
               Response Ratio = 0.10990 + 0.08307 *A

103)  1,1,2,2-tetrachloroethane
       0.743 0.741       0.718 0.747 1.011 0.701 0.821 0.786 0.728  0.777   12.20
104)  trans-1,4-dichloro-2-butene
       0.176 0.183       0.190 0.203 0.171 0.190 0.211 0.154 0.195  0.186    9.22
105)  1,2,3-trichloropropane
       0.177 0.179       0.167 0.169 0.218 0.154 0.196 0.184 0.168  0.179   10.55
106)  n-propylbenzene
       3.132 3.305       2.863 2.865 3.661 2.611 3.319 3.574 2.849  3.131   11.49
107)  4-Ethyltoluene
       2.463 2.632       2.294 2.290       2.159 2.464       2.319  2.374    6.55
108)  2-chlorotoluene
       0.676 0.690       0.622 0.615       0.572 0.729       0.613  0.646    8.45
109)  4-chlorotoluene
       2.088 2.187       1.965 1.983       1.854 2.278 2.363 1.953  2.084    8.51
110)  1,3,5-trimethylbenzene
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** VY5252-ICC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122454.D
Project: 508 West 24th Street, Manhattan, NY

```
       2.338 2.425       2.107 2.109       1.939 2.467 2.549 2.096  2.254    9.71
111)  tert-butylbenzene
       1.894 1.992       1.751 1.801 2.219 1.702 2.026 2.154 1.775  1.924    9.59
112)  pentachloroethane
       0.454 0.485       0.483 0.489 0.563 0.470 0.543 0.493 0.477  0.495    7.08
113)  1,2,4-trimethylbenzene
       2.328 2.450       2.214 2.228       2.055 2.575 2.641 2.208  2.337    8.63
114)  sec-butylbenzene
       2.853 2.978       2.566 2.616       2.437 2.990 3.196 2.591  2.778    9.50
115)  1,3-dichlorobenzene
       1.471 1.490       1.399 1.404       1.313 1.595 1.642 1.397  1.464    7.51
116)  p-isopropyltoluene
       2.365 2.524       2.167 2.214       2.060 2.533 2.633 2.191  2.336    8.93
117)  1,4-dichlorobenzene
       1.474 1.487       1.398 1.406       1.316 1.577 1.705 1.402  1.471    8.30
118)  1,2-dichlorobenzene
       1.400 1.427       1.377 1.391       1.293 1.563 1.582 1.381  1.427    6.88
119)  n-butylbenzene
       1.261 1.343       1.138 1.142 1.494 1.057 1.337 1.415 1.144  1.259   11.74
120)  p-Diethylbenzene
       1.366 1.480       1.324 1.321       1.253 1.394       1.353  1.356    5.19
121)  1,2-dibromo-3-chloropropane
       0.133 0.137       0.141 0.152 0.151 0.145 0.155 0.117 0.146  0.142    8.23
122)  1,3,5-Trichlorobenzene
       1.147 1.239       1.141 1.138       1.056 1.269 1.364 1.138  1.187    8.22
123)  1,2,4-trichlorobenzene
       1.032 1.091       1.042 1.039       0.984 1.120 1.148 1.036  1.062    5.04
124)  1,2,4,5-tetramethylbenzene
       2.189 2.391       2.318 2.294       2.158 2.350       2.347  2.292    3.79
125)  hexachlorobutadiene
       0.577 0.654       0.548 0.545       0.520 0.648 0.692 0.546  0.591   10.83
126)  naphthalene
       1.978 1.964       2.038 2.055       1.900 2.156 2.168 2.006  2.033    4.56
127)  1,2,3-trichlorobenzene
       0.931 0.948       0.945 0.923       0.860 1.014 1.040 0.913  0.947    6.03
128)  hexachloroethane
       0.410 0.460       0.447 0.477 0.494 0.468 0.507 0.449 0.448  0.462    6.22
129)  Benzyl chloride
       1.273 1.325       1.254 1.300       1.235 1.186 1.139 1.284  1.249    4.93
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MYS5252.M         Fri May 04 14:54:11 2012   RPT1
```

Initial Calibration Verification

Job Number: JB15113 **Sample:** VY5252-ICV5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122459.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\olddata...2000-122999\Y122459.D Vial: 23
Acq On : 26 Apr 2012 11:05 pm Operator: RobertS
Sample : ICV5252-50 Inst : MSY
Misc : MS28551,VY5252,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri May 04 14:44:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.00	7.68
2		1,4-dioxane	0.105	0.111	-5.7	100	0.00	11.49
3		tertiary butyl alcohol	1.190	1.272	-6.9	102	0.00	7.79
4	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.85
5		freon 141b	0.407	0.427	-4.9	114	0.00	6.54
6		freon 142b	0.354	0.383	-8.2	114	0.00	4.44
7		freon 143a	0.172	0.170	1.2	112	0.00	3.82
8		chlorodifluoromethane	0.286	0.275	3.8	103	0.00	4.20
9		dichlorodifluoromethane	0.406	0.427	-5.2	114	0.00	4.16
10		chloromethane	0.467	0.449	3.9	106	0.00	4.53
11		vinyl chloride	0.385	0.382	0.8	109	0.00	4.79
12		bromomethane	0.314	0.296	5.7	108	0.00	5.47
13		chloroethane	0.223	0.214	4.0	109	0.00	5.65
14		Vinyl Bromide	0.254	0.254	0.0	112	0.00	6.01
15		trichlorofluoromethane	0.473	0.487	-3.0	114	0.00	6.10
16		ethyl ether	0.215	0.222	-3.3	109	0.00	6.51
17		2-chloropropane	0.126	0.132	-4.8	111	0.00	6.73
18		acrolein	0.061	0.057	6.6	99	0.00	6.84
19		1,1-dichloroethene	0.456	0.479	-5.0	112	0.00	6.95
20		acetone	0.028	0.027	3.6	106	0.00	7.06
21		allyl chloride	0.191	0.202	-5.8	111	0.00	7.50
22		acetonitrile	0.031	0.030	3.2	112	0.00	7.55
23		iodomethane	0.628	0.676	-7.6	111	0.00	7.26
24		iso-butyl alcohol	0.012	0.011	8.3	100	0.00	10.18
25		carbon disulfide	0.957	0.988	-3.2	111	0.00	7.37
26		1-chloropropane	0.025	0.027	-8.0	117	0.00	7.72
27		methylene chloride	0.411	0.415	-1.0	106	0.00	7.71
28		methyl acetate	0.046	0.046	0.0	100	0.00	7.50
29		methyl tert butyl ether	1.135	1.12	1.3	104	0.00	7.98
30		trans-1,2-dichloroethene	0.346	0.339	2.0	107	0.00	8.05
31		di-isopropyl ether	1.206	1.205	0.1	105	0.00	8.55
32		ethyl tert-butyl ether	1.251	1.221	2.4	101	0.00	9.02
33		2-butanone	0.038	0.038	0.0	104	0.00	9.35
34		1,1-dichloroethane	0.620	0.635	-2.4	109	0.00	8.63
35		chloroprene	0.452	0.441	2.4	106	0.00	8.72
36		acrylonitrile	0.096	0.099	-3.1	102	0.00	8.08
37		vinyl acetate	0.054	0.062	-14.8	117	0.00	8.61
38		ethyl acetate	0.041	0.042	-2.4	107	0.00	9.33
39		2,2-dichloropropane	0.497	0.482	3.0	108	0.00	9.35
40		cis-1,2-dichloroethene	0.412	0.417	-1.2	107	0.00	9.37
41		propionitrile	0.040	0.041	-2.5	104	0.00	9.50

Initial Calibration Verification

Job Number: JB15113 **Sample:** VY5252-ICV5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122459.D
Project: 508 West 24th Street, Manhattan, NY

42		bromochloromethane	0.211	0.220	-4.3	105	0.00	9.69
43		tetrahydrofuran	0.105	0.102	2.9	105	0.00	9.71
44		chloroform	0.696	0.691	0.7	110	0.00	9.73
45		tert-Butyl Formate	0.148	0.150	-1.4	104	0.00	9.74
46	S	dibromofluoromethane (s)	0.351	0.347	1.1	102	0.00	9.94
47	S	1,2-dichloroethane-d4 (s)	0.383	0.368	3.9	100	0.00	10.36
48		freon 113	0.227	0.221	2.6	105	0.00	6.89
49		methacrylonitrile	0.122	0.128	-4.9	105	0.00	9.65
50		1,1,1-trichloroethane	0.506	0.514	-1.6	110	0.00	9.96
51		Cyclohexane	0.418	0.436	-4.3	115	0.00	9.99
52		2,2,4-trimethylpentane	1.026	0.946	7.8	105	0.00	10.33
53		tert-amyl methyl ether	1.142	1.120	1.9	104	0.00	10.40
54	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	10.77
55		epichlorohydrin	0.022	0.022	0.0	107	0.00	12.03
56		n-butyl alcohol	0.007	0.007#	0.0	101	0.00	10.91
57		carbon tetrachloride	0.313	0.325	-3.8	113	0.00	10.14
58		1,1-dichloropropene	0.308	0.306	0.6	110	0.00	10.12
		----------	True	Calc.	% Drift	----------		
59		hexane	50.000	48.018	4.0	98	0.00	8.29
		----------	AvgRF	CCRF	% Dev	----------		
60		Tert Amyl Alcohol	0.031	0.029	6.5	102	0.00	10.29
61		benzene	1.014	0.985	2.9	107	0.00	10.40
62		heptane	0.145	0.137	5.5	103	0.00	10.50
63		isopropyl acetate	0.092	0.094	-2.2	104	0.00	10.31
64		1,2-dichloroethane	0.355	0.364	-2.5	107	0.00	10.45
65		trichloroethene	0.256	0.263	-2.7	110	0.00	11.10
66		ethyl acrylate	0.272	0.268	1.5	99	0.00	11.10
67		2-nitropropane	0.081	0.081	0.0	106	0.00	11.90
68		2-chloroethyl vinyl ether	0.075	0.082	-9.3	107	0.00	11.88
69		methyl methacrylate	0.160	0.166	-3.8	106	0.00	11.35
70		1,2-dichloropropane	0.264	0.267	-1.1	106	0.00	11.38
71		methylcyclohexane	0.342	0.313	8.5	101	0.00	11.27
72		Tert-amyl ethyl ether	0.647	0.654	-1.1	103	0.00	11.21
73		dibromomethane	0.165	0.178	-7.9	108	0.00	11.55
74		bromodichloromethane	0.384	0.390	-1.6	104	0.00	11.67
75		cis-1,3-dichloropropene	0.456	0.443	2.9	99	0.00	12.10
76	S	toluene-d8 (s)	0.885	0.864	2.4	102	0.00	12.36
77		4-methyl-2-pentanone	0.094	0.093	1.1	104	0.00	12.18
78		toluene	1.110	1.083	2.4	107	0.00	12.43
79		3-methyl-1-butanol	0.007	0.007#	0.0	101	0.00	12.21
80		trans-1,3-dichloropropene	0.405	0.422	-4.2	105	0.00	12.66
81		ethyl methacrylate	0.329	0.319	3.0	101	0.00	12.61
82		1,1,2-trichloroethane	0.201	0.204	-1.5	104	0.00	12.87
83		2-hexanone	0.094	0.090	4.3	102	0.00	13.02
84	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.85
85		tetrachloroethene	0.335	0.333	0.6	110	0.00	12.99
86		1,3-dichloropropane	0.433	0.426	1.6	103	0.00	13.05
87		butyl acetate	0.167	0.172	-3.0	102	0.00	13.06
88		dibromochloromethane	0.343	0.347	-1.2	103	0.00	13.31
89		1,2-dibromoethane	0.280	0.282	-0.7	102	0.00	13.46
90		3,3-Dimethyl-1-Butanol	0.026	0.026	0.0	102	0.00	13.18
91		chlorobenzene	0.862	0.848	1.6	106	0.00	13.88
92		1,1,1,2-tetrachloroethane	0.316	0.320	-1.3	107	0.00	13.94
93		ethylbenzene	1.345	1.286	4.4	107	0.00	13.92
94		m,p-xylene	0.520	0.496	4.6	106	0.00	14.02
95		o-xylene	0.542	0.536	1.1	107	0.00	14.43

Initial Calibration Verification

Job Number: JB15113 **Sample:** VY5252-ICV5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y122459.D
Project: 508 West 24th Street, Manhattan, NY

96		styrene	0.920	0.911	1.0	105	0.00	14.45
97		bromoform	0.227	0.234	-3.1	105	0.00	14.75
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	16.13
99		isopropylbenzene	2.666	2.569	3.6	107	0.00	14.76
100	S	4-bromofluorobenzene (s)	0.841	0.830	1.3	102	0.00	14.98
101		bromobenzene	0.803	0.789	1.7	106	0.00	15.18
		----------	True	Calc.	% Drift	----------		
102		cyclohexanone	500.000	452.449	9.5	107	0.00	14.98
		----------	AvgRF	CCRF	% Dev	----------		
103		1,1,2,2-tetrachloroethane	0.777	0.690	11.2	99	0.00	15.11
104		trans-1,4-dichloro-2-bute	0.186	0.195	-4.8	106	0.00	15.15
105		1,2,3-trichloropropane	0.179	0.166	7.3	102	0.00	15.18
106		n-propylbenzene	3.131	3.018	3.6	109	0.00	15.16
107		4-Ethyltoluene	2.374	2.278	4.0	103	0.00	15.26
108		2-chlorotoluene	0.646	0.635	1.7	105	0.00	15.32
109		4-chlorotoluene	2.084	1.970	5.5	104	0.00	15.42
110		1,3,5-trimethylbenzene	2.254	2.174	3.5	107	0.00	15.31
111		tert-butylbenzene	1.924	1.845	4.1	109	0.00	15.65
112		pentachloroethane	0.495	0.501	-1.2	107	0.00	15.76
113		1,2,4-trimethylbenzene	2.337	2.303	1.5	107	0.00	15.70
114		sec-butylbenzene	2.778	2.691	3.1	108	0.00	15.86
115		1,3-dichlorobenzene	1.464	1.424	2.7	105	0.00	16.08
116		p-isopropyltoluene	2.336	2.325	0.5	111	0.00	15.98
117		1,4-dichlorobenzene	1.471	1.401	4.8	104	0.00	16.15
118		1,2-dichlorobenzene	1.427	1.380	3.3	104	0.00	16.55
119		n-butylbenzene	1.259	1.174	6.8	107	0.00	16.38
120		p-Diethylbenzene	1.356	1.313	3.2	102	0.00	16.35
121		1,2-dibromo-3-chloropropa	0.142	0.139	2.1	102	0.00	17.34
122		1,3,5-Trichlorobenzene	1.187	1.111	6.4	101	0.00	17.48
123		1,2,4-trichlorobenzene	1.062	1.040	2.1	103	0.00	18.13
124		1,2,4,5-tetramethylbenzen	2.292	2.269	1.0	101	0.00	17.14
125		hexachlorobutadiene	0.591	0.574	2.9	108	0.00	18.22
126		naphthalene	2.033	1.991	2.1	101	0.00	18.43
127		1,2,3-trichlorobenzene	0.947	0.913	3.6	100	0.00	18.68
128		hexachloroethane	0.462	0.469	-1.5	108	0.00	16.78
129		Benzyl chloride	1.249	1.324	-6.0	109	0.00	16.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y122454.D MYS5252.M Fri May 04 14:51:41 2012 RPT1

6.7.5

6

Continuing Calibration Summary

Job Number: JB15113 **Sample:** VY5399-CC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y125707.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\Y125707.D Vial: 26
Acq On : 31 Aug 2012 9:42 pm Operator: ROBERTS
Sample : CC5252-50 Inst : MSY
Misc : MS34981,VY5399,5.0,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Aug 03 11:08:26 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	125	-0.01	7.66
2	1,4-dioxane	0.105	0.113	-7.6	123	0.00	11.48
3	tertiary butyl alcohol	1.190	1.170	1.7	114	0.00	7.78
4 I	pentafluorobenzene	1.000	1.000	0.0	118	0.00	9.84
5	freon 141b		----------NA----------				
6	freon 142b		----------NA----------				
7	freon 143a		----------NA----------				
8	chlorodifluoromethane	0.286	0.256	10.5	108	0.00	4.20
9	dichlorodifluoromethane	0.406	0.355	12.6	108	0.01	4.17
10	chloromethane	0.467	0.467	0.0	125	0.00	4.52
11	vinyl chloride	0.385	0.417	-8.3	134	0.00	4.79
12	bromomethane	0.314	0.326	-3.8	135	0.00	5.47
13	chloroethane	0.223	0.241	-8.1	139	0.00	5.65
14	Vinyl Bromide		----------NA----------				
15	trichlorofluoromethane	0.473	0.478	-1.1	127	0.00	6.10
16	ethyl ether	0.215	0.232	-7.9	130	0.00	6.51
17	2-chloropropane	0.126	0.140	-11.1	134	0.00	6.73
18	acrolein	0.061	0.059	3.3	117	0.00	6.84
19	1,1-dichloroethene	0.456	0.450	1.3	120	0.00	6.95
20	acetone	0.028	0.028	0.0	128	0.00	7.07
21	allyl chloride	0.191	0.215	-12.6	134	0.00	7.49
22	acetonitrile	0.031	0.039	-25.8#	169	0.00	7.54
23	iodomethane	0.628	0.711	-13.2	132	0.00	7.25
24	iso-butyl alcohol	0.012	0.011	8.3	115	0.00	10.17
25	carbon disulfide	0.957	1.093	-14.2	139	0.00	7.36
26	1-chloropropane	0.025	0.028	-12.0	138	0.00	7.71
27	methylene chloride	0.411	0.437	-6.3	126	0.00	7.70
28	methyl acetate	0.046	0.058	-26.1#	142	0.00	7.49
29	methyl tert butyl ether	1.135	1.102	2.9	115	0.00	7.98
30	trans-1,2-dichloroethene	0.346	0.360	-4.0	129	0.00	8.05
31	di-isopropyl ether	1.206	1.152	4.5	114	0.00	8.54
32	ethyl tert-butyl ether	1.251	1.155	7.7	109	0.00	9.01
33	2-butanone	0.038	0.040	-5.3	127	0.00	9.34
34	1,1-dichloroethane	0.620	0.657	-6.0	128	0.00	8.63
35	chloroprene	0.452	0.345	23.7#	94	0.00	8.71
36	acrylonitrile	0.096	0.119	-24.0#	140	0.00	8.07
37	vinyl acetate	0.054	0.051	5.6	109	0.00	8.60
38	ethyl acetate	0.041	0.043	-4.9	123	0.00	9.33
39	2,2-dichloropropane	0.497	0.466	6.2	118	0.00	9.34
40	cis-1,2-dichloroethene	0.412	0.437	-6.1	127	0.00	9.36
41	propionitrile	0.040	0.047	-17.5	137	-0.01	9.48

Continuing Calibration Summary

Job Number: JB15113 **Sample:** VY5399-CC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y125707.D
Project: 508 West 24th Street, Manhattan, NY

42		bromochloromethane	0.211	0.231	-9.5	125	0.00	9.68
43		tetrahydrofuran	0.105	0.107	-1.9	125	0.00	9.70
44		chloroform	0.696	0.655	5.9	118	0.00	9.73
45		tert-Butyl Formate	0.148	0.184	-24.3#	144	0.00	9.74
46	S	dibromofluoromethane (s)	0.351	0.356	-1.4	119	0.00	9.93
47	S	1,2-dichloroethane-d4 (s)	0.383	0.315	17.8	97	0.00	10.35
48		freon 113	0.227	0.246	-8.4	133	0.00	6.90
49		methacrylonitrile	0.122	0.140	-14.8	131	0.00	9.64
50		1,1,1-trichloroethane	0.506	0.473	6.5	115	0.00	9.95
51		Cyclohexane	0.418	0.447	-6.9	133	0.00	9.99
52		2,2,4-trimethylpentane	1.026	1.033	-0.7	129	0.00	10.32
53		tert-amyl methyl ether	1.142	1.016	11.0	107	0.00	10.39
54	I	1,4-difluorobenzene	1.000	1.000	0.0	121	0.00	10.76
55		epichlorohydrin	0.022	0.020	9.1	115	0.00	12.02
56		n-butyl alcohol	0.007	0.007#	0.0	122	0.00	10.90
57		carbon tetrachloride	0.313	0.298	4.8	121	0.00	10.14
58		1,1-dichloropropene	0.308	0.302	1.9	127	0.00	10.12
		----------	True	Calc.	% Drift	----------		
59		hexane	50.000	49.737	0.5	119	0.00	8.28
		----------	AvgRF	CCRF	% Dev	----------		
60		Tert Amyl Alcohol		----------NA----------				
61		benzene	1.014	1.011	0.3	128	0.00	10.39
62		heptane	0.145	0.135	6.9	119	0.00	10.49
63		isopropyl acetate	0.092	0.097	-5.4	125	0.00	10.30
64		1,2-dichloroethane	0.355	0.316	11.0	108	0.00	10.44
65		trichloroethene	0.256	0.250	2.3	123	0.00	11.09
66		ethyl acrylate		----------NA----------				
67		2-nitropropane	0.081	0.064	21.0#	98	0.00	11.90
68		2-chloroethyl vinyl ether	0.075	0.085	-13.3	129	0.00	11.87
69		methyl methacrylate	0.160	0.168	-5.0	126	0.00	11.35
70		1,2-dichloropropane	0.264	0.278	-5.3	129	0.00	11.37
71		methylcyclohexane	0.342	0.325	5.0	122	0.00	11.27
72		Tert-amyl ethyl ether		----------NA----------				
73		dibromomethane	0.165	0.173	-4.8	122	0.00	11.54
74		bromodichloromethane	0.384	0.369	3.9	115	0.00	11.66
75		cis-1,3-dichloropropene	0.456	0.454	0.4	118	0.00	12.09
76	S	toluene-d8 (s)	0.885	0.941	-6.3	130	0.00	12.35
77		4-methyl-2-pentanone	0.094	0.096	-2.1	125	0.00	12.18
78		toluene	1.110	1.036	6.7	119	0.00	12.43
79		3-methyl-1-butanol	0.007	0.007#	0.0	119	0.00	12.21
80		trans-1,3-dichloropropene	0.405	0.382	5.7	112	0.00	12.65
81		ethyl methacrylate	0.329	0.304	7.6	112	0.00	12.60
82		1,1,2-trichloroethane	0.201	0.201	0.0	120	0.00	12.86
83		2-hexanone	0.094	0.085	9.6	112	0.00	13.01
84	I	chlorobenzene-d5	1.000	1.000	0.0	113	0.00	13.84
85		tetrachloroethene	0.335	0.338	-0.9	123	0.00	12.99
86		1,3-dichloropropane	0.433	0.447	-3.2	118	0.00	13.04
87		butyl acetate	0.167	0.165	1.2	108	0.00	13.06
88		dibromochloromethane	0.343	0.362	-5.5	118	0.00	13.30
89		1,2-dibromoethane	0.280	0.295	-5.4	118	0.00	13.45
90		3,3-Dimethyl-1-Butanol	0.026	0.026	0.0	113	0.00	13.18
91		chlorobenzene	0.862	0.858	0.5	117	0.00	13.88
92		1,1,1,2-tetrachloroethane	0.317	0.324	-2.2	119	0.00	13.93
93		ethylbenzene	1.346	1.245	7.5	113	0.00	13.91
94		m,p-xylene	0.521	0.486	6.7	114	0.00	14.01
95		o-xylene	0.542	0.519	4.2	113	0.00	14.42

Continuing Calibration Summary

Job Number: JB15113 **Sample:** VY5399-CC5252
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** Y125707.D
Project: 508 West 24th Street, Manhattan, NY

96		styrene	0.920	0.880	4.3	111	0.00	14.45
97		bromoform	0.227	0.262	-15.4	129	0.00	14.74
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	114	0.00	16.12
99		isopropylbenzene	2.666	2.440	8.5	113	0.00	14.75
100	S	4-bromofluorobenzene (s)	0.841	0.748	11.1	101	0.00	14.98
101		bromobenzene	0.803	0.806	-0.4	119	0.00	15.17
		----------	True	Calc.	% Drift	----------		
102		cyclohexanone	500.000	132.403	73.5#	45	0.00	14.97
		----------	AvgRF	CCRF	% Dev	----------		
103		1,1,2,2-tetrachloroethane	0.777	0.734	5.5	117	0.00	15.10
104		trans-1,4-dichloro-2-bute	0.186	0.151	18.8	91	0.00	15.14
105		1,2,3-trichloropropane	0.179	0.168	6.1	115	0.00	15.17
106		n-propylbenzene	3.131	2.788	11.0	111	0.00	15.15
107		4-Ethyltoluene		----------NA----------				
108		2-chlorotoluene	0.646	0.656	-1.5	120	0.00	15.31
109		4-chlorotoluene	2.084	1.825	12.4	106	0.00	15.41
110		1,3,5-trimethylbenzene	2.254	2.075	7.9	113	0.00	15.30
111		tert-butylbenzene	1.924	1.762	8.4	115	0.00	15.64
112		pentachloroethane	0.495	0.529	-6.9	125	0.00	15.75
113		1,2,4-trimethylbenzene	2.337	2.109	9.8	109	0.00	15.69
114		sec-butylbenzene	2.778	2.519	9.3	112	0.00	15.85
115		1,3-dichlorobenzene	1.464	1.414	3.4	116	0.00	16.07
116		p-isopropyltoluene	2.336	2.133	8.7	112	0.00	15.97
117		1,4-dichlorobenzene	1.471	1.415	3.8	116	0.00	16.15
118		1,2-dichlorobenzene	1.427	1.423	0.3	118	0.00	16.54
119		n-butylbenzene	1.259	1.028	18.3	103	0.00	16.38
120		p-Diethylbenzene		----------NA----------				
121		1,2-dibromo-3-chloropropa	0.142	0.152	-7.0	123	0.00	17.33
122		1,3,5-Trichlorobenzene	1.187	1.245	-4.9	125	0.00	17.48
123		1,2,4-trichlorobenzene	1.062	1.015	4.4	111	0.00	18.12
124		1,2,4,5-tetramethylbenzen		----------NA----------				
125		hexachlorobutadiene	0.591	0.598	-1.2	125	0.00	18.21
126		naphthalene	2.033	1.733	14.8	97	0.00	18.42
127		1,2,3-trichlorobenzene	0.947	0.918	3.1	111	-0.01	18.67
128		hexachloroethane	0.462	0.480	-3.9	123	0.00	16.77
129		Benzyl chloride	1.249	1.111	11.0	101	0.00	16.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y122454.D MYS5252.M Tue Sep 04 10:22:14 2012 RPT1

New Jersey
ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MB1	2M45990.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	140	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	140	5.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	57	10	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
100-52-7	Benzaldehyde	ND	140	6.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	57	8.9	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
105-60-2	Caprolactam	ND	57	9.0	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	57	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MB1	2M45990.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	57	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	57	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	140	7.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	57	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	91%	21-116%

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MB1	2M45990.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	96%	19-117%
118-79-6	2,4,6-Tribromophenol	102%	24-136%
4165-60-0	Nitrobenzene-d5	107%	21-122%
321-60-8	2-Fluorobiphenyl	84%	30-117%
1718-51-0	Terphenyl-d14	121%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	1.52	460	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-BS1	2M45991.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	1150	81	51-111
59-50-7	4-Chloro-3-methyl phenol	1430	1500	105	54-121
120-83-2	2,4-Dichlorophenol	1430	1270	89	51-120
105-67-9	2,4-Dimethylphenol	1430	1470	103	55-131
51-28-5	2,4-Dinitrophenol	2860	2190	77	19-144
534-52-1	4,6-Dinitro-o-cresol	1430	1300	91	33-126
95-48-7	2-Methylphenol	1430	1250	88	49-115
	3&4-Methylphenol	1430	1290	90	49-115
88-75-5	2-Nitrophenol	1430	1190	83	47-122
100-02-7	4-Nitrophenol	1430	1510	106	10-137
87-86-5	Pentachlorophenol	1430	1090	76	17-126
108-95-2	Phenol	1430	1220	85	47-111
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1190	83	43-116
95-95-4	2,4,5-Trichlorophenol	1430	1320	92	56-120
88-06-2	2,4,6-Trichlorophenol	1430	1330	93	55-118
83-32-9	Acenaphthene	1430	1320	92	55-114
208-96-8	Acenaphthylene	1430	1230	86	50-103
98-86-2	Acetophenone	1430	1290	90	53-121
120-12-7	Anthracene	1430	1450	102	59-121
1912-24-9	Atrazine	1430	1590	111	58-137
56-55-3	Benzo(a)anthracene	1430	1310	92	54-119
50-32-8	Benzo(a)pyrene	1430	1390	97	59-122
205-99-2	Benzo(b)fluoranthene	1430	1300	91	45-133
191-24-2	Benzo(g,h,i)perylene	1430	1490	104	57-122
207-08-9	Benzo(k)fluoranthene	1430	1530	107	49-131
101-55-3	4-Bromophenyl phenyl ether	1430	1420	99	58-122
85-68-7	Butyl benzyl phthalate	1430	1490	104	54-132
92-52-4	1,1'-Biphenyl	1430	1410	99	54-116
100-52-7	Benzaldehyde	1430	1020	71	32-125
91-58-7	2-Chloronaphthalene	1430	1240	87	53-113
106-47-8	4-Chloroaniline	1430	1110	78	26-102
86-74-8	Carbazole	1430	1350	95	60-121
105-60-2	Caprolactam	1430	1940	136	32-136
218-01-9	Chrysene	1430	1370	96	55-120
111-91-1	bis(2-Chloroethoxy)methane	1430	1360	95	49-120
111-44-4	bis(2-Chloroethyl)ether	1430	1200	84	42-113

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-BS1	2M45991.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	1310	92	36-118
7005-72-3	4-Chlorophenyl phenyl ether	1430	1310	92	53-117
121-14-2	2,4-Dinitrotoluene	1430	1370	96	57-122
606-20-2	2,6-Dinitrotoluene	1430	1400	98	51-133
91-94-1	3,3'-Dichlorobenzidine	1430	1420	99	27-121
53-70-3	Dibenzo(a,h)anthracene	1430	1420	99	58-125
132-64-9	Dibenzofuran	1430	1260	88	57-111
84-74-2	Di-n-butyl phthalate	1430	1530	107	59-125
117-84-0	Di-n-octyl phthalate	1430	1590	111	53-136
84-66-2	Diethyl phthalate	1430	1440	101	56-118
131-11-3	Dimethyl phthalate	1430	1350	95	57-116
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1490	104	54-133
206-44-0	Fluoranthene	1430	1410	99	57-119
86-73-7	Fluorene	1430	1390	97	57-117
118-74-1	Hexachlorobenzene	1430	1370	96	55-122
87-68-3	Hexachlorobutadiene	1430	1090	76	43-126
77-47-4	Hexachlorocyclopentadiene	2860	2240	78	24-167
67-72-1	Hexachloroethane	1430	987	69	44-113
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1440	101	57-127
78-59-1	Isophorone	1430	1430	100	42-124
91-57-6	2-Methylnaphthalene	1430	1170	82	46-114
88-74-4	2-Nitroaniline	1430	1800	126	47-132
99-09-2	3-Nitroaniline	1430	1340	94	34-106
100-01-6	4-Nitroaniline	1430	1380	97	46-121
91-20-3	Naphthalene	1430	1110	78	49-111
98-95-3	Nitrobenzene	1430	1320	92	48-114
621-64-7	N-Nitroso-di-n-propylamine	1430	1320	92	44-119
86-30-6	N-Nitrosodiphenylamine	1430	1340	94	58-117
85-01-8	Phenanthrene	1430	1390	97	58-118
129-00-0	Pyrene	1430	1330	93	54-122
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1170	82	44-126

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	21-116%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-BS1	2M45991.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	86%	19-117%
118-79-6	2,4,6-Tribromophenol	102%	24-136%
4165-60-0	Nitrobenzene-d5	91%	21-122%
321-60-8	2-Fluorobiphenyl	86%	30-117%
1718-51-0	Terphenyl-d14	101%	31-129%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MS	2M46010.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
OP59482-MSD	2M46011.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
JB15128-1A	2M46009.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	JB15128-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2310	1360	59	2360	1830	78	29	30-111/32
59-50-7	4-Chloro-3-methyl phenol	ND		2310	1490	64	2360	2190	93	38* [a]	33-124/31
120-83-2	2,4-Dichlorophenol	ND		2310	1340	58	2360	1960	83	38* [a]	31-121/33
105-67-9	2,4-Dimethylphenol	ND		2310	1620	70	2360	2290	97	34* [a]	30-136/32
51-28-5	2,4-Dinitrophenol	ND		4630	204	4* [b]	4720	394	8* [b]	64* [a]	10-131/48
534-52-1	4,6-Dinitro-o-cresol	ND		2310	165	7* [b]	2360	274	12	50* [a]	10-123/48
95-48-7	2-Methylphenol	ND		2310	1410	61	2360	1890	80	29	28-119/30
	3&4-Methylphenol	145		2310	1490	58	2360	1980	78	28	27-120/32
88-75-5	2-Nitrophenol	ND		2310	1150	50	2360	1640	70	35	24-118/35
100-02-7	4-Nitrophenol	ND		2310	1680	73	2360	2530	107	40	10-137/43
87-86-5	Pentachlorophenol	ND		2310	1180	51	2360	2090	89	56* [a]	11-121/35
108-95-2	Phenol	ND		2310	1380	60	2360	1830	78	28	27-114/32
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2310	1330	57	2360	2090	89	44* [a]	26-119/34
95-95-4	2,4,5-Trichlorophenol	ND		2310	1370	59	2360	2130	90	43* [a]	35-124/33
88-06-2	2,4,6-Trichlorophenol	ND		2310	1390	60	2360	2110	89	41* [a]	34-122/31
83-32-9	Acenaphthene	480		2310	1660	51	2360	2380	81	36* [a]	30-122/31
208-96-8	Acenaphthylene	23.4	J	2310	1260	53	2360	1830	77	37* [a]	32-107/29
98-86-2	Acetophenone	ND		2310	1530	66	2360	2010	85	27	28-126/33
120-12-7	Anthracene	661		2310	1910	54	2360	2910	95	41* [a]	33-130/30
1912-24-9	Atrazine	ND		2310	1620	70	2360	2450	104	41* [a]	32-140/32
56-55-3	Benzo(a)anthracene	1090		2310	2170	47	2360	3430	99	45* [a]	29-127/33
50-32-8	Benzo(a)pyrene	841		2310	2050	52	2360	3210	100	44* [a]	28-134/34
205-99-2	Benzo(b)fluoranthene	717		2310	2230	65	2360	3180	104	35	19-143/38
191-24-2	Benzo(g,h,i)perylene	522		2310	1940	61	2360	2980	104	42* [a]	27-135/34
207-08-9	Benzo(k)fluoranthene	656		2310	1530	38	2360	2830	92	60* [a]	20-138/40
101-55-3	4-Bromophenyl phenyl ether	ND		2310	1380	60	2360	2140	91	43* [a]	35-127/29
85-68-7	Butyl benzyl phthalate	ND		2310	1360	59	2360	2090	89	42* [a]	31-136/32
92-52-4	1,1'-Biphenyl	40.2	J	2310	1480	62	2360	2160	90	37* [a]	33-121/28
100-52-7	Benzaldehyde	66.2	J	2310	1250	51	2360	1680	68	29	18-128/33
91-58-7	2-Chloronaphthalene	ND		2310	1290	56	2360	1870	79	37* [a]	34-113/29
106-47-8	4-Chloroaniline	ND		2310	1230	53	2360	1720	73	33	10-109/35
86-74-8	Carbazole	315		2310	1570	54	2360	2290	84	37* [a]	37-126/31
105-60-2	Caprolactam	ND		2310	2090	90	2360	2680	114	25	12-137/37
218-01-9	Chrysene	1040		2310	2170	49	2360	3430	101	45* [a]	29-129/32
111-91-1	bis(2-Chloroethoxy)methane	ND		2310	1510	65	2360	2120	90	34* [a]	28-121/32
111-44-4	bis(2-Chloroethyl)ether	ND		2310	1380	60	2360	1870	79	30	19-116/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MS	2M46010.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
OP59482-MSD	2M46011.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
JB15128-1A	2M46009.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Compound	JB15128-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		2310	1480	64	2360	2030	86	31	22-112/31
7005-72-3	4-Chlorophenyl phenyl ether	ND		2310	1300	56	2360	1970	83	41* [a]	36-118/28
121-14-2	2,4-Dinitrotoluene	ND		2310	1210	52	2360	1840	78	41* [a]	28-128/34
606-20-2	2,6-Dinitrotoluene	ND		2310	1290	56	2360	1980	84	42* [a]	31-133/31
91-94-1	3,3'-Dichlorobenzidine	ND		2310	1060	46	2360	1870	79	55* [a]	10-124/39
53-70-3	Dibenzo(a,h)anthracene	210		2310	1650	62	2360	2650	103	47* [a]	32-135/34
132-64-9	Dibenzofuran	323		2310	1450	49	2360	2100	75	37* [a]	34-118/30
84-74-2	Di-n-butyl phthalate	ND		2310	1490	64	2360	2300	97	43* [a]	37-128/29
117-84-0	Di-n-octyl phthalate	ND		2310	1320	57	2360	2090	89	45* [a]	29-139/33
84-66-2	Diethyl phthalate	ND		2310	1410	61	2360	2070	88	38* [a]	36-121/30
131-11-3	Dimethyl phthalate	58.2	J	2310	1420	59	2360	2000	82	34* [a]	37-121/29
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2310	1420	61	2360	2250	95	45* [a]	26-145/34
206-44-0	Fluoranthene	2900		2310	3660	33	2360	5810	123	45* [a]	25-132/33
86-73-7	Fluorene	517		2310	1730	52	2360	2550	86	38* [a]	32-125/32
118-74-1	Hexachlorobenzene	ND		2310	1260	54	2360	2060	87	48* [a]	34-122/29
87-68-3	Hexachlorobutadiene	ND		2310	1320	57	2360	1860	79	34* [a]	26-119/32
77-47-4	Hexachlorocyclopentadiene	ND		4630	50.8	1* [b]	4720	505	11	163* [a]	10-146/42
67-72-1	Hexachloroethane	ND		2310	1040	45	2360	1470	62	34* [a]	22-104/32
193-39-5	Indeno(1,2,3-cd)pyrene	492		2310	1890	60	2360	2990	106	45* [a]	29-138/35
78-59-1	Isophorone	ND		2310	1580	68	2360	2170	92	31	26-121/31
91-57-6	2-Methylnaphthalene	233		2310	1420	51	2360	1960	73	32	23-121/32
88-74-4	2-Nitroaniline	ND		2310	1690	73	2360	2490	106	38* [a]	28-135/32
99-09-2	3-Nitroaniline	ND		2310	1340	58	2360	1970	83	38* [a]	16-115/36
100-01-6	4-Nitroaniline	ND		2310	1340	58	2360	1970	83	38* [a]	17-121/36
91-20-3	Naphthalene	894		2310	1770	38	2360	2330	61	27	25-117/32
98-95-3	Nitrobenzene	ND		2310	1530	66	2360	2080	88	30	27-115/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2310	1490	64	2360	1960	83	27	26-119/32
86-30-6	N-Nitrosodiphenylamine	ND		2310	1350	58	2360	2000	85	39* [a]	33-132/30
85-01-8	Phenanthrene	2890		2310	3530	28	2360	5390	106	42* [a]	28-132/34
129-00-0	Pyrene	2020		2310	2940	40	2360	4410	101	40* [a]	27-132/33
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2310	1280	55	2360	1820	77	35* [a]	28-120/29

CAS No.	Surrogate Recoveries	MS	MSD	JB15128-1A	Limits
367-12-4	2-Fluorophenol	56%	74%	54%	21-116%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59482-MS	2M46010.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
OP59482-MSD	2M46011.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983
JB15128-1A	2M46009.D	1	09/01/12	KLS	08/31/12	OP59482	E2M1983

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-1, JB15113-3

CAS No.	Surrogate Recoveries	MS	MSD	JB15128-1A	Limits
4165-62-2	Phenol-d5	60%	78%	55%	19-117%
118-79-6	2,4,6-Tribromophenol	64%	101%	60%	24-136%
4165-60-0	Nitrobenzene-d5	66%	88%	57%	21-122%
321-60-8	2-Fluorobiphenyl	55%	80%	49%	30-117%
1718-51-0	Terphenyl-d14	56%	85%	51%	31-129%

(a) Analytical precision exceeds standard laboratory control limits.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1951-DFTPP
Lab File ID: 2M45177.D
Instrument ID: GCMS2M
Injection Date: 07/25/12
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	13254	40.8		Pass
68	Less than 2.0% of mass 69	104	0.32	(0.80) [a]	Pass
69	Mass 69 relative abundance	12978	40.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	17207	53.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	32482	100.0		Pass
199	5.0 - 9.0% of mass 198	2122	6.53		Pass
275	10.0 - 30.0% of mass 198	7731	23.8		Pass
365	1.0 - 100.0% of mass 198	832	2.56		Pass
441	Present, but less than mass 443	3314	10.2	(77.0) [b]	Pass
442	40.0 - 100.0% of mass 198	22746	70.0		Pass
443	17.0 - 23.0% of mass 442	4306	13.3	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2M1951-IC1951	2M45178.D	07/25/12	11:21	01:40	Initial cal 100
E2M1951-IC1951	2M45179.D	07/25/12	11:45	02:04	Initial cal 2
E2M1951-IC1951	2M45180.D	07/25/12	12:10	02:29	Initial cal 1
E2M1951-ICC1951	2M45181.D	07/25/12	12:34	02:53	Initial cal 50
E2M1951-IC1951	2M45182.D	07/25/12	12:58	03:17	Initial cal 5
E2M1951-IC1951	2M45183.D	07/25/12	13:22	03:41	Initial cal 10
E2M1951-IC1951	2M45184.D	07/25/12	13:46	04:05	Initial cal 80
E2M1951-IC1951	2M45185.D	07/25/12	14:11	04:30	Initial cal 25

Instrument Performance Check (DFTPP)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1952-DFTPP
Lab File ID: 2M45186.D
Instrument ID: GCMS2M
Injection Date: 07/25/12
Injection Time: 14:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15905	44.4		Pass
68	Less than 2.0% of mass 69	109	0.30	(0.70) [a]	Pass
69	Mass 69 relative abundance	15660	43.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	20122	56.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	35789	100.0		Pass
199	5.0 - 9.0% of mass 198	2384	6.66		Pass
275	10.0 - 30.0% of mass 198	7972	22.3		Pass
365	1.0 - 100.0% of mass 198	700	1.96		Pass
441	Present, but less than mass 443	3257	9.10	(76.7) [b]	Pass
442	40.0 - 100.0% of mass 198	22172	62.0		Pass
443	17.0 - 23.0% of mass 442	4249	11.9	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2M1952-IC1952	2M45187.D	07/25/12	15:14	00:20	Initial cal 100
E2M1952-IC1952	2M45188.D	07/25/12	15:38	00:44	Initial cal 80
E2M1952-ICC1952	2M45189.D	07/25/12	16:02	01:08	Initial cal 50
E2M1952-IC1952	2M45190.D	07/25/12	16:26	01:32	Initial cal 25
E2M1952-IC1952	2M45193.D	07/25/12	16:52	01:58	Initial cal 2
E2M1952-IC1952	2M45191.D	07/25/12	17:16	02:22	Initial cal 10
E2M1952-IC1952	2M45192.D	07/25/12	17:40	02:46	Initial cal 5
E2M1952-IC1952	2M45194.D	07/25/12	18:04	03:10	Initial cal 1
E2M1952-ICV1951	2M45195.D	07/25/12	18:28	03:34	Initial cal verification 50
E2M1952-ICV1952	2M45196A.D	07/25/12	18:53	03:59	Initial cal verification 50
E2M1952-ICV1951	2M45196.D	07/25/12	18:53	03:59	Initial cal verification 50
E2M1952-ICV1951	2M45197.D	07/25/12	19:17	04:23	Initial cal verification 50
E2M1952-ICV1952	2M45197A.D	07/25/12	19:17	04:23	Initial cal verification 50
E2M1952-ICV1951	2M45198.D	07/25/12	19:41	04:47	Initial cal verification 50
E2M1952-ICV1952	2M45200.D	07/25/12	20:29	05:35	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1983-DFTPP
Lab File ID: 2M45987.D
Instrument ID: GCMS2M
Injection Date: 09/01/12
Injection Time: 09:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17073	40.3		Pass
68	Less than 2.0% of mass 69	223	0.53	(1.17) [a]	Pass
69	Mass 69 relative abundance	18985	44.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	24312	57.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	42360	100.0		Pass
199	5.0 - 9.0% of mass 198	2937	6.93		Pass
275	10.0 - 30.0% of mass 198	10913	25.8		Pass
365	1.0 - 100.0% of mass 198	1274	3.01		Pass
441	Present, but less than mass 443	5505	13.0	(73.9) [b]	Pass
442	40.0 - 100.0% of mass 198	39245	92.6		Pass
443	17.0 - 23.0% of mass 442	7452	17.6	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2M1983-CC1951	2M45988.D	09/01/12	09:45	00:21	Continuing cal 50
E2M1983-CC1952	2M45989.D	09/01/12	10:09	00:45	Continuing cal 50
OP59482-MB1	2M45990.D	09/01/12	10:33	01:09	Method Blank
OP59482-BS1	2M45991.D	09/01/12	10:57	01:33	Blank Spike
ZZZZZZ	2M45992.D	09/01/12	11:22	01:58	(unrelated sample)
ZZZZZZ	2M45993.D	09/01/12	11:46	02:22	(unrelated sample)
ZZZZZZ	2M45994.D	09/01/12	12:10	02:46	(unrelated sample)
JB15113-1	2M45995.D	09/01/12	12:34	03:10	043-PE 6A-0.5'-1'
JB15113-3	2M45997.D	09/01/12	13:23	03:59	045-PE 7A-0.5'-1'
ZZZZZZ	2M46001.D	09/01/12	15:00	05:36	(unrelated sample)
ZZZZZZ	2M46002.D	09/01/12	15:25	06:01	(unrelated sample)
ZZZZZZ	2M46003.D	09/01/12	15:49	06:25	(unrelated sample)
ZZZZZZ	2M46004.D	09/01/12	16:13	06:49	(unrelated sample)
ZZZZZZ	2M46005.D	09/01/12	16:38	07:14	(unrelated sample)
ZZZZZZ	2M46006.D	09/01/12	17:02	07:38	(unrelated sample)
ZZZZZZ	2M46007.D	09/01/12	17:27	08:03	(unrelated sample)
ZZZZZZ	2M46008.D	09/01/12	17:51	08:27	(unrelated sample)
JB15128-1A	2M46009.D	09/01/12	18:15	08:51	(used for QC only; not part of job JB15113)
OP59482-MS	2M46010.D	09/01/12	18:40	09:16	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1983-DFTPP
Lab File ID: 2M45987.D
Instrument ID: GCMS2M
Injection Date: 09/01/12
Injection Time: 09:24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59482-MSD	2M46011.D	09/01/12	19:04	09:40	Matrix Spike Duplicate
ZZZZZZ	2M46012.D	09/01/12	19:28	10:04	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	E2M1983-CC1951	**Injection Date:**	09/01/12
Lab File ID:	2M45988.D	**Injection Time:**	09:45
Instrument ID:	GCMS2M	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	321327	2.88	1431391	4.49	779729	7.11	1258003	9.35	1178840	13.03	1025934	14.40
Upper Limit [a]	642654	3.38	2862782	4.99	1559458	7.61	2516006	9.85	2357680	13.53	2051868	14.90
Lower Limit [b]	160664	2.38	715696	3.99	389865	6.61	629002	8.85	589420	12.53	512967	13.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59482-MB1	296157	2.88	1230380	4.49	701554	7.10	1058194	9.35	960119	13.02	844262	14.40
OP59482-BS1	329315	2.88	1422089	4.49	773500	7.11	1236098	9.35	1139973	13.03	992375	14.40
ZZZZZZ	317455	2.88	1292400	4.49	716399	7.10	1150634	9.35	1046612	13.02	904242	14.40
ZZZZZZ	349541	2.88	1425871	4.49	768943	7.10	1226272	9.35	1127697	13.02	967922	14.40
ZZZZZZ	308899	2.88	1244518	4.49	676989	7.10	1083682	9.35	1006609	13.02	843727	14.40
JB15113-1	295017	2.88	1220180	4.49	680413	7.10	1108467	9.35	1044644	13.02	888093	14.40
JB15113-3	327284	2.88	1321136	4.49	731173	7.10	1192980	9.35	1076158	13.02	872761	14.40
ZZZZZZ	326368	2.88	1432310	4.49	765048	7.10	1280044	9.35	1129378	13.03	977352	14.40
ZZZZZZ	335165	2.88	1455263	4.49	816472	7.10	1294390	9.35	1149616	13.03	986026	14.41
ZZZZZZ	328669	2.88	1396820	4.49	771124	7.10	1172436	9.35	1088669	13.02	965340	14.40
ZZZZZZ	329111	2.88	1452227	4.49	801857	7.10	1271396	9.35	1122336	13.03	1015111	14.41
ZZZZZZ	337596	2.88	1483849	4.49	781090	7.10	1199363	9.35	1170983	13.03	1033661	14.41
ZZZZZZ	327690	2.88	1398222	4.49	694337	7.11	1218231	9.35	1056023	13.03	939039	14.41
ZZZZZZ	350268	2.88	1502685	4.49	819978	7.11	1195175	9.35	1202702	13.03	1053905	14.41
ZZZZZZ	373631	2.88	1625667	4.49	870907	7.12	1380008	9.38	1292110	13.04	1192596	14.42
JB15128-1A	353867	2.88	1565811	4.49	877788	7.11	1312930	9.36	1283235	13.04	1175668	14.42
OP59482-MS	318052	2.88	1357583	4.49	734954	7.11	1280637	9.36	1252492	13.04	1173641	14.42
OP59482-MSD	352047	2.89	1462179	4.49	791967	7.11	1299064	9.36	1328139	13.05	1232464	14.43
ZZZZZZ	335415	2.89	1437130	4.49	784517	7.11	1298106	9.36	1336792	13.04	1316825	14.43

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB15113-1	2M45995.D	69	78	82	76	66	83
JB15113-3	2M45997.D	62	70	68	71	64	72
OP59482-BS1	2M45991.D	77	86	102	91	86	101
OP59482-MB1	2M45990.D	91	96	102	107	84	121
OP59482-MS	2M46010.D	56	60	64	66	55	56
OP59482-MSD	2M46011.D	74	78	101	88	80	85

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	21-116%
S2 = Phenol-d5	19-117%
S3 = 2,4,6-Tribromophenol	24-136%
S4 = Nitrobenzene-d5	21-122%
S5 = 2-Fluorobiphenyl	30-117%
S6 = Terphenyl-d14	31-129%

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1951-ICC1951
Lab FileID: 2M45181.D

Response Factor Report MS2M

Method : C:\MSDCHEM\1\METHODS\M2M1951.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
Last Update : Wed Jul 25 14:49:41 2012
Response via : Initial Calibration

Calibration Files
2 =2m45179.D 5 =2m45182.D 25 =2m45185.D 80 =2m45184.D
100 =2m45178.D 50 =2m45181.D 1 =2m45180.D 10 =2m45183.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.711	0.634	0.626	0.637	0.616	0.663	0.607	0.704	0.650	6.04
3) Pyridine	1.991	1.643	1.700	1.754	1.720	1.703	1.659	1.893	1.758	6.92
4) N-Nitrosodim	1.212	1.135	1.076	1.101	1.093	1.085	1.036	1.226	1.121	5.96
5) 2-Fluorophen	1.638	1.462	1.440	1.575	1.548	1.414	1.320	1.658	1.507	7.79
6) Indene	3.005	2.733	2.910	2.710	2.664	2.781	2.468	3.049	2.790	6.87
7) Cumene	4.119	3.609	3.750	3.561	3.452	3.650	3.451	4.060	3.706	6.92
8) Phenol-d5	2.225	2.035	1.927	2.019	1.982	1.844	1.852	2.235	2.015	7.45
9) Phenol	2.561	2.300	2.325	2.306	2.270	2.234	2.056	2.544	2.324	7.06
10) Aniline	3.289	2.631	2.739	2.256	2.604	2.607	2.614	3.018	2.720	11.41
11) bis(2-Chloro	1.856	1.614	1.592	1.589	1.551	1.539	1.535	1.809	1.636	7.66
12) 2-Chlorophen	1.838	1.583	1.588	1.599	1.577	1.540	1.485	1.778	1.624	7.42
13) Decane	1.817	1.655	1.709	1.604	1.574	1.640	1.540	1.857	1.674	6.75
14) 1,3-Dichloro	1.981	1.772	1.682	1.684	1.650	1.632	1.575	1.893	1.734	8.03
15) 1,4-Dichloro	1.894	1.815	1.718	1.702	1.660	1.650	1.663	1.939	1.755	6.45
16) Benzyl alcoh	1.299	1.168	1.182	1.197	1.181	1.136	1.015	1.291	1.184	7.55
17) 1,2-Dichloro	1.889	1.669	1.616	1.594	1.558	1.540	1.540	1.803	1.651	7.85
18) Acetophenone	2.576	2.336	2.362	2.261	2.232	2.221	2.129	2.504	2.327	6.46
19) 2-Methylphen	1.786	1.586	1.632	1.577	1.607	1.564	1.385	1.761	1.612	7.73
20) 2,2'-oxybis(	2.877	2.526	2.472	2.450	2.418	2.351	2.359	2.739	2.524	7.45
21) 3&4-Methylph	1.870	1.702	1.735	1.640	1.616	1.627	1.427	1.901	1.690	8.96
22) n-Nitroso-di	1.453	1.272	1.253	1.215	1.190	1.163	1.156	1.397	1.263	8.65
23) Hexachloroet	0.516	0.480	0.490	0.459	0.451	0.461	0.466	0.529	0.482	5.89
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.426	0.388	0.379	0.387	0.385	0.360	0.351	0.425	0.388	6.96
26) Nitrobenzene	0.469	0.399	0.397	0.397	0.395	0.377	0.374	0.441	0.406	8.04
27) Quinoline	0.852	0.757	0.763	0.748	0.742	0.716	0.665	0.816	0.757	7.54
28) Isophorone	0.786	0.721	0.718	0.718	0.713	0.676	0.637	0.782	0.719	6.85
29) 2-Nitropheno	0.206	0.196	0.202	0.197	0.197	0.192	0.158	0.211	0.195	8.16
30) 2,4-Dimethyl	0.392	0.336	0.371	0.357	0.367	0.354	0.270	0.404	0.356	11.52
31) Benzoic acid			0.272	0.335	0.271	0.287		0.250	0.283	11.37
32) bis(2-Chloro	0.487	0.425	0.411	0.415	0.408	0.394	0.379	0.456	0.422	8.18
33) 2,4-Dichloro	0.310	0.286	0.285	0.280	0.279	0.270	0.230	0.303	0.280	8.64
34) 2,6-Dichloro	0.310	0.276	0.280	0.264	0.265	0.259	0.236	0.311	0.275	9.25
35) 1,3,5-Trichl	0.349	0.319	0.309	0.289	0.283	0.291	0.282	0.334	0.307	8.17
36) 1,2,4-Trichl	0.350	0.309	0.295	0.294	0.286	0.280	0.302	0.332	0.306	7.81
37) 1,2,3-Trichl	0.337	0.298	0.296	0.286	0.279	0.280	0.269	0.319	0.296	7.64
38) Naphthalene	1.288	1.160	1.133	1.052	1.042	1.056	1.087	1.231	1.131	7.98
39) 4-Chloroanil	0.545	0.484	0.480	0.443	0.455	0.448	0.420	0.537	0.476	9.37
40) 2,3-Dichloro	0.385	0.344	0.359	0.325	0.324	0.325	0.306	0.374	0.343	8.03
41) Caprolactam	0.191	0.178	0.191	0.197	0.197	0.184	0.141	0.199	0.185	10.39
42) Hexachlorobu	0.159	0.147	0.140	0.141	0.137	0.134	0.132	0.157	0.143	6.95
43) 4-Chloro-3-m	0.333	0.318	0.327	0.331	0.330	0.315	0.253	0.352	0.320	9.12
44) 2-Methylnaph	0.745	0.664	0.639	0.619	0.608	0.606	0.593	0.716	0.649	8.56
45) 1-Methylnaph	0.792	0.724	0.694	0.664	0.655	0.673	0.642	0.767	0.701	7.81

Initial Calibration Summary

Job Number: JB15113 **Sample:** E2M1951-ICC1951
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2M45181.D
Project: 508 West 24th Street, Manhattan, NY

46)	Dimethylnaph	0.669	0.644	0.619	0.591	0.583	0.592	0.544	0.668	0.614	7.23
47)	I Acenaphthene-d10	----------ISTD----------									
48)	Hexachlorocy	0.234	0.236	0.275	0.273	0.283	0.272	0.171	0.271	0.252	14.88
49)	2,4,6-Trichl	0.368	0.335	0.350	0.323	0.330	0.318	0.266	0.365	0.332	9.75
50)	2,4,5-Trichl	0.404	0.361	0.375	0.363	0.365	0.353	0.285	0.400	0.363	10.04
51)	2-Fluorobiph	1.451	1.290	1.242	1.166	1.185	1.149	1.171	1.382	1.255	8.91
52)	2-Chloronaph	1.316	1.146	1.140	1.065	1.081	1.070	1.073	1.259	1.144	8.32
53)	Biphenyl	1.737	1.527	1.527	1.375	1.384	1.411	1.425	1.646	1.504	8.76
54)	2-Nitroanili	0.410	0.384	0.397	0.396	0.401	0.374	0.311	0.421	0.387	8.74
55)	Dimethylphth	1.509	1.333	1.291	1.243	1.258	1.197	1.188	1.466	1.310	9.10
56)	Acenaphthyle	2.085	1.865	1.929	1.783	1.821	1.796	1.647	2.097	1.878	8.20
57)	2,6-Dinitrot	0.310	0.285	0.292	0.296	0.303	0.277	0.206	0.317	0.286	12.18
58)	3-Nitroanili	0.393	0.375	0.389	0.375	0.380	0.367	0.287	0.428	0.374	10.61
59)	Acenaphthene	1.356	1.204	1.197	1.079	1.086	1.111	1.113	1.315	1.183	8.95
60)	2,4-Dinitrop			0.144	0.189	0.194	0.153		0.120	0.160	19.57
61)	4-Nitropheno	0.144	0.149	0.166	0.177	0.180	0.162	0.113	0.171	0.158	14.02
62)	Dibenzofuran	1.924	1.673	1.644	1.538	1.548	1.505	1.540	1.843	1.652	9.41
63)	2,4-Dinitrot	0.422	0.390	0.415	0.414	0.422	0.385	0.285	0.457	0.399	12.76
64)	2,3,4,6-Tetr	0.301	0.271	0.281	0.278	0.280	0.263	0.214	0.302	0.274	10.11
65)	Diethylphtha	1.524	1.311	1.283	1.251	1.267	1.181	1.175	1.472	1.308	9.70
66)	Fluorene	1.429	1.297	1.315	1.226	1.246	1.215	1.161	1.434	1.290	7.70
67)	4-Chlorophen	0.699	0.609	0.579	0.546	0.552	0.533	0.546	0.678	0.593	10.80
68)	4-Nitroanili	0.400	0.383	0.392	0.402	0.413	0.371	0.288	0.420	0.384	10.83
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-		0.100	0.144	0.156	0.160	0.146		0.135	0.140	15.42
71)	n-Nitrosodip	0.676	0.611	0.594	0.557	0.574	0.558	0.520	0.676	0.596	9.49
72)	1,2-Diphenyl	1.041	0.946	0.935	0.894	0.920	0.892	0.816	1.065	0.939	8.63
73)	2,4,6-Tribro	0.082	0.077	0.076	0.082	0.083	0.073	0.063	0.085	0.078	9.40
74)	4-Bromopheny	0.195	0.182	0.180	0.174	0.176	0.169	0.157	0.197	0.179	7.32
75)	Hexachlorobe	0.214	0.186	0.178	0.176	0.179	0.171	0.172	0.202	0.185	8.33
76)	Pentachlorop	0.114	0.112	0.127	0.127	0.129	0.123	0.077	0.133	0.118	15.28
77)	Phenanthrene	1.376	1.220	1.181	1.073	1.096	1.097	1.158	1.323	1.191	9.29
78)	Anthracene	1.331	1.199	1.220	1.042	1.076	1.117	1.071	1.342	1.175	10.00
79)	Carbazole	1.283	1.130	1.152	1.033	1.051	1.064	1.002	1.230	1.118	8.88
80)	Di-n-butylph	1.330	1.257	1.349	1.276	1.342	1.260	0.994	1.439	1.281	10.20
81)	Fluoranthene	1.250	1.112	1.172	1.060	1.096	1.068	1.002	1.255	1.127	8.10
82)	Octadecane	0.630	0.596	0.634	0.554	0.565	0.588	0.470	0.676	0.589	10.65
83)	I Chrysene-d12	----------ISTD----------									
84)	Pyrene	1.571	1.388	1.336	1.244	1.227	1.285	1.243	1.508	1.350	9.61
85)	Terphenyl-d1	0.891	0.785	0.758	0.765	0.775	0.723	0.720	0.870	0.786	7.99
86)	Butylbenzylp	0.664	0.587	0.655	0.653	0.670	0.632	0.463	0.687	0.626	11.58
87)	Butyl steara	0.397	0.380	0.442	0.445	0.451	0.427	0.270	0.463	0.409	15.32
88)	Benzo[a]anth	1.391	1.180	1.187	1.132	1.166	1.134	1.180	1.291	1.208	7.38
89)	3,3'-Dichlor	0.459	0.393	0.405	0.382	0.397	0.385	0.324	0.447	0.399	10.41
90)	Chrysene	1.393	1.181	1.120	1.003	1.044	1.038	1.185	1.268	1.154	11.40
91)	bis(2-Ethylh	0.887	0.812	0.915	0.909	0.919	0.881	0.630	0.965	0.865	12.06
92)	I Perylene-d12	----------ISTD----------									
93)	Di-n-octylph	1.638	1.521	1.790	1.791	1.775	1.730	1.071	1.843	1.645	15.44
94)	Benzo[b]fluo	1.497	1.355	1.204	1.193	1.353	1.215	1.201	1.460	1.310	9.46
95)	Benzo[k]fluo	1.385	1.240	1.375	1.203	1.019	1.176	1.071	1.406	1.234	11.84
96)	Benzo[a]pyre	1.249	1.109	1.224	1.140	1.161	1.171	0.994	1.340	1.174	8.74
97)	Indeno[1,2,3	1.527	1.300	1.355	1.293	1.305	1.318	1.088	1.491	1.335	10.10
98)	Dibenz(a,h)a	1.087	0.922	1.013	0.963	0.982	0.986	0.787	1.041	0.973	9.28
99)	Dibenz[a,h]a	1.258	1.106	1.149	1.096	1.099	1.133	0.906	1.276	1.128	10.10
100)	7,12-Dimethy	0.714	0.599	0.632	0.553	0.560	0.575	0.504	0.716	0.607	12.59
101)	Benzo[g,h,i]	1.264	1.101	1.133	1.089	1.089	1.117	0.949	1.258	1.125	8.96

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1951-ICC1951
Lab FileID: 2M45181.D

```
--------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2M1951.M         Wed Jul 25 15:40:15 2012   MS2M
```

Initial Calibration Summary

Job Number: JB15113 **Sample:** E2M1952-ICC1952
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2M45189.D
Project: 508 West 24th Street, Manhattan, NY

```
                         Response Factor Report  MS2M

  Method       : C:\MSDCHEM\1\METHODS\M2M1952.M (RTE Integrator)
  Title        : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
  Last Update  : Thu Jul 26 13:01:05 2012
  Response via : Initial Calibration

  Calibration Files
  2   =2m45193.D   5   =2m45192.D   25  =2m45190.D   80  =2m45188.D
  100 =2m45187.D   50  =2m45189.D   1   =2m45194.D   10  =2m45191.D

   Compound         2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------

102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.539 1.413 1.338 1.343 1.351 1.398 1.338 1.432 1.394   4.96

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.506 0.475 0.437 0.421 0.415 0.437 0.450 0.472 0.452   6.78
106) 2-bromonapht 0.622 0.611 0.573 0.570 0.563 0.598 0.550 0.615 0.588   4.60

107)     Chrysene-d12a         ----------------ISTD---------------------
108) Benzidine    0.674 0.769 0.903 0.860 0.792 0.746 0.499 0.870 0.764  17.06
109) 1-chloroocta 0.412 0.454 0.476 0.488 0.463 0.507 0.303 0.462 0.446  14.32

110)     Phenanthrene-d10a     ----------------ISTD---------------------
111) Atrazine     0.096 0.098 0.106 0.109 0.110 0.113 0.071 0.105 0.101  13.41
112) o-terphenyl  0.599 0.576 0.544 0.538 0.533 0.552 0.506 0.597 0.556   5.88

113) I   Naphthalene-d8a       ----------------ISTD---------------------
114) hydroquinone 0.328 0.337 0.394 0.442 0.459 0.459       0.363 0.398  14.27
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2M1951.M         Thu Jul 26 13:01:30 2012   MS2M
```

7.7.2

7

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1951
Lab FileID: 2M45195.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1952\
Data File : 2m45195.D
Acq On    : 25 Jul 2012   6:28 pm
Operator  : olgaa
Sample    : icv1951-50
Misc      : op58246,e2m1952,
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Jul 26 09:09:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Wed Jul 25 15:42:51 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
9	t	Phenol	2.324	2.105	9.4	109	0.00
12	t	2-Chlorophenol	1.624	1.582	2.6	119	0.00
19	t	2-Methylphenol	1.612	1.547	4.0	115	0.00
21	t	3&4-Methylphenol	1.690	1.633	3.4	117	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
29	t	2-Nitrophenol	0.195	0.194	0.5	112	0.00
30	t	2,4-Dimethylphenol	0.356	0.365	-2.5	115	0.00
31	t	Benzoic acid	0.283	0.244	13.8	94	0.00
33	t	2,4-Dichlorophenol	0.280	0.284	-1.4	117	0.00
34	t	2,6-Dichlorophenol	0.275	0.283	-2.9	121	0.00
43	t	4-Chloro-3-methylphenol	0.320	0.328	-2.5	116	-0.01
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
49	t	2,4,6-Trichlorophenol	0.332	0.347	-4.5	117	0.00
50	t	2,4,5-Trichlorophenol	0.363	0.375	-3.3	114	-0.01
60	t	2,4-Dinitrophenol	0.160	0.118	26.3	82	0.00
61	t	4-Nitrophenol	0.158	0.167	-5.7	110	0.00
64		2,3,4,6-Tetrachlorophenol	0.274	0.271	1.1	110	0.00
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
70	t	4,6-Dinitro-2-methylphenol	0.140	0.130	7.1	98	0.00
76	t	Pentachlorophenol	0.118	0.128	-8.5	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 09:09:50 2012 MS2M

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1951
Lab FileID: 2M45196.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\e2m1952\
Data File : 2m45196.D
Acq On : 25 Jul 2012 6:53 pm
Operator : olgaa
Sample : icv1951-50
Misc : op58246,e2m1952,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 09:15:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Wed Jul 25 15:42:51 2012
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
3	t	Pyridine	1.758	1.557	11.4	106	-0.01
4	t	N-Nitrosodimethylamine	1.121	0.974	13.1	104	0.00
11	t	bis(2-Chloroethyl)ether	1.636	1.725	-5.4	130	0.00
14	t	1,3-Dichlorobenzene	1.734	1.732	0.1	123	0.00
15	t	1,4-Dichlorobenzene	1.755	1.749	0.3	123	0.00
16	t	Benzyl alcohol	1.184	1.182	0.2	120	0.00
17	t	1,2-Dichlorobenzene	1.651	1.674	-1.4	126	0.00
20	t	2,2'-oxybis(1-Chloropropane	2.524	2.510	0.6	123	0.00
22	t	n-Nitroso-di-n-propylamine	1.263	1.221	3.3	121	0.00
23	t	Hexachloroethane	0.482	0.483	-0.2	121	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
26	t	Nitrobenzene	0.406	0.415	-2.2	123	0.00
28	t	Isophorone	0.719	0.754	-4.9	125	0.00
32	t	bis(2-Chloroethoxy)methane	0.422	0.466	-10.4	132	0.00
36	t	1,2,4-Trichlorobenzene	0.306	0.312	-2.0	125	0.00
38	t	Naphthalene	1.131	1.143	-1.1	121	0.00
42	t	Hexachlorobutadiene	0.143	0.144	-0.7	120	0.00
44	t	2-Methylnaphthalene	0.649	0.604	6.9	112	0.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
48	t	Hexachlorocyclopentadiene	0.252	0.256	-1.6	100	0.00
52	t	2-Chloronaphthalene	1.144	1.151	-0.6	113	0.00
54	t	2-Nitroaniline	0.387	0.385	0.5	109	0.00
55	t	Dimethylphthalate	1.310	1.337	-2.1	118	0.00
56	t	Acenaphthylene	1.878	1.867	0.6	110	0.00
57	t	2,6-Dinitrotoluene	0.286	0.308	-7.7	118	0.00
58	t	3-Nitroaniline	0.374	0.338	9.6	97	0.00
59	t	Acenaphthene	1.183	1.211	-2.4	115	0.00
62	t	Dibenzofuran	1.652	1.667	-0.9	117	0.00
63	t	2,4-Dinitrotoluene	0.399	0.411	-3.0	113	0.00
65	t	Diethylphthalate	1.308	1.305	0.2	117	0.00
66	t	Fluorene	1.290	1.395	-8.1	121	0.00
67	t	4-Chlorophenyl-phenylether	0.593	0.595	-0.3	118	0.00
68	t	4-Nitroaniline	0.384	0.391	-1.8	111	0.00
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2M1952-ICV1951
Lab FileID: 2M45196.D

71	t	n-Nitrosodiphenylamine	0.596	0.616	-3.4	115	0.00
72	t	1,2-Diphenylhydrazine	0.939	1.050	-11.8	123	0.00
74	t	4-Bromophenyl-phenylether	0.179	0.193	-7.8	119	0.00
75	t	Hexachlorobenzene	0.185	0.191	-3.2	117	0.00
77	t	Phenanthrene	1.191	1.222	-2.6	116	0.00
78	t	Anthracene	1.175	1.245	-6.0	116	0.00
79	t	Carbazole	1.118	1.146	-2.5	113	0.00
80	t	Di-n-butylphthalate	1.281	1.371	-7.0	114	0.00
81	t	Fluoranthene	1.127	1.155	-2.5	113	0.00
83	I	Chrysene-d12	1.000	1.000	0.0	101	0.00
84	t	Pyrene	1.350	1.428	-5.8	112	0.00
86	t	Butylbenzylphthalate	0.626	0.694	-10.9	111	0.00
88	t	Benzo[a]anthracene	1.208	1.236	-2.3	110	0.00
89	t	3,3'-Dichlorobenzidine	0.399	0.303	24.1	79	0.00
90	t	Chrysene	1.154	1.179	-2.2	114	0.00
91	t	bis(2-Ethylhexyl)phthalate	0.865	0.946	-9.4	108	0.00
92	I	Perylene-d12	1.000	1.000	0.0	101	0.00
93	t	Di-n-octylphthalate	1.645	1.879	-14.2	110	0.00
94	t	Benzo[b]fluoranthene	1.310	1.295	1.1	108	0.00
95	t	Benzo[k]fluoranthene	1.234	1.334	-8.1	115	0.00
96	t	Benzo[a]pyrene	1.174	1.256	-7.0	109	0.00
97	t	Indeno[1,2,3-cd]pyrene	1.335	1.434	-7.4	110	0.00
99	t	Dibenz[a,h]anthracene	1.128	1.212	-7.4	109	0.00
101	t	Benzo[g,h,i]perylene	1.125	1.238	-10.0	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 09:16:05 2012 MS2M

7.7.4

7

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1952
Lab FileID: 2M45196A.D

Evaluate Continuing Calibration Report

```
  Data Path : C:\msdchem\1\DATA\e2m1952\
  Data File : 2m45196a.D
  Acq On    : 25 Jul 2012   6:53 pm
  Operator  : olgaa
  Sample    : icv1952-50
  Misc      : op58246,e2m1952,
  ALS Vial  : 11   Sample Multiplier: 1

  Quant Time: Jul 26 13:03:04 2012
  Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
  Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
  QLast Update : Thu Jul 26 13:01:05 2012
  Response via : Initial Calibration


  Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
  Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	Acenaphthene-d10a	1.000	1.000	0.0	87	0.00
105	1,2,4,5-Tetrachlorobenzene	0.452	0.407	10.0	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 13:03:35 2012 MS2M

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1951
Lab FileID: 2M45197.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1952\
Data File : 2m45197.D
Acq On    : 25 Jul 2012   7:17 pm
Operator  : olgaa
Sample    : icv1951-50
Misc      : op58246,e2m1952,
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Jul 26 09:17:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Wed Jul 25 15:42:51 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2	t	1,4-Dioxane	0.650	0.615	5.4	96	-0.01
6	t	Indene	2.790	2.905	-4.1	109	0.00
7	t	Cumene	3.706	3.828	-3.3	109	0.00
13	t	Decane	1.674	1.682	-0.5	107	0.00
18	t	Acetophenone	2.327	2.372	-1.9	111	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
27	t	Quinoline	0.757	0.775	-2.4	108	-0.01
40	t	2,3-Dichloroaniline	0.343	0.340	0.9	105	0.00
41	t	Caprolactam	0.185	0.194	-4.9	106	-0.04
45	t	1-Methylnaphthalene	0.701	0.731	-4.3	109	0.00
46	t	Dimethylnaphthalene	0.614	0.660	-7.5	112	0.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
53	t	Biphenyl	1.504	1.636	-8.8	111	0.00
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
82	t	Octadecane	0.589	0.677	-14.9	115	0.00
92	I	Perylene-d12	1.000	1.000	0.0	95	0.00
100	t	7,12-Dimethylbenz(a)anthrac	0.607	0.588	3.1	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 09:17:45 2012 MS2M

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1952
Lab FileID: 2M45197A.D

Evaluate Continuing Calibration Report

```
  Data Path : C:\msdchem\1\DATA\e2m1952\
  Data File : 2m45197a.D
  Acq On    : 25 Jul 2012   7:17 pm
  Operator  : olgaa
  Sample    : icv1952-50
  Misc      : op58246,e2m1952,
  ALS Vial  : 12   Sample Multiplier: 1

  Quant Time: Jul 26 13:04:59 2012
  Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
  Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
  QLast Update : Thu Jul 26 13:01:05 2012
  Response via : Initial Calibration


  Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
  Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	89	0.00
103	Benzaldehyde	1.394	1.239	11.1	79	0.00
110	Phenanthrene-d10a	1.000	1.000	0.0	80	0.00
111	Atrazine	0.101	0.119	-17.8	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 13:05:40 2012 MS2M

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1951
Lab FileID: 2M45198.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1952\
Data File : 2m45198.D
Acq On    : 25 Jul 2012   7:41 pm
Operator  : olgaa
Sample    : icv1951-50
Misc      : op58246,e2m1952,
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Jul 26 09:18:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Wed Jul 25 15:42:51 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00
5	S	2-Fluorophenol	1.507	1.564	-3.8	140	0.00
8	S	Phenol-d5	2.015	1.991	1.2	137	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	121	0.00
25	S	Nitrobenzene-d5	0.388	0.396	-2.1	133	0.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
51	S	2-Fluorobiphenyl	1.255	1.237	1.4	126	0.00
69	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
73	S	2,4,6-Tribromophenol	0.078	0.072	7.7	119	0.00
83	I	Chrysene-d12	1.000	1.000	0.0	123	0.00
85	S	Terphenyl-d14	0.786	0.875	-11.3	148	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 09:19:50 2012 MS2M

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1952-ICV1952
Lab FileID: 2M45200.D

Evaluate Continuing Calibration Report

```
  Data Path : C:\msdchem\1\DATA\e2m1952\
  Data File : 2m45200.D
  Acq On    : 25 Jul 2012   8:29 pm
  Operator  : olgaa
  Sample    : icv1952-50
  Misc      : op58246,e2m1952,
  ALS Vial  : 15   Sample Multiplier: 1

  Quant Time: Jul 26 13:06:11 2012
  Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
  Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
  QLast Update : Thu Jul 26 13:01:05 2012
  Response via : Initial Calibration


  Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
  Max. RRF Dev :  30%     Max. Rel. Area : 200%

         Compound                      AvgRF   CCRF      %Dev Area% Dev(min)
  ---------------------------------------------------------------------------

107      Chrysene-d12a                 1.000   1.000       0.0   81   0.00
108      Benzidine                     0.764   0.956     -25.1  104   0.00
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0

M2M1951.M Thu Jul 26 13:06:30 2012 MS2M
```

7.7.9

7

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1953-ICV1951
Lab FileID: 2M45204.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1953\
Data File : 2m45204.D
Acq On    : 26 Jul 2012  10:24 am
Operator  : olgaa
Sample    : icv1951-50
Misc      : op58246,e2m1953,
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Jul 26 13:07:58 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Wed Jul 25 14:49:41 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	184	0.00
10		Aniline	2.720	2.570	5.5	181	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	180	0.00
39	t	4-Chloroaniline	0.476	0.465	2.3	187	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Thu Jul 26 13:08:35 2012 MS2M

7.7.10

7

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2M1983-CC1951
Lab FileID: 2M45988.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1983\
Data File : 2m45988.D
Acq On    :  1 Sep 2012   9:45 am
Operator  : kristis
Sample    : cc1951-50
Misc      : op59374,e2m1983,1000,,,1,1
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Sep 05 14:02:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Fri Aug 31 15:05:52 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	-0.03
3	t	Pyridine	1.758	1.958	-11.4	128	-0.02
4	t	N-Nitrosodimethylamine	1.121	1.255	-12.0	129	-0.01
5	S	2-Fluorophenol	1.507	1.495	0.8	118	-0.02
6	t	Indene	2.790	3.045	-9.1	122	-0.03
7	t	Cumene	3.706	4.140	-11.7	126	-0.02
8	S	Phenol-d5	2.015	2.121	-5.3	128	-0.03
9	t	Phenol	2.324	2.403	-3.4	120	-0.03
10		Aniline	2.720	2.575	5.3	110	-0.02
11	t	bis(2-Chloroethyl)ether	1.636	1.756	-7.3	127	-0.03
12	t	2-Chlorophenol	1.624	1.647	-1.4	119	-0.03
13	t	Decane	1.674	2.131	-27.3#	145	-0.02
14	t	1,3-Dichlorobenzene	1.734	1.694	2.3	115	-0.03
15	t	1,4-Dichlorobenzene	1.755	1.738	1.0	117	-0.03
16	t	Benzyl alcohol	1.184	1.252	-5.7	123	-0.03
17	t	1,2-Dichlorobenzene	1.651	1.611	2.4	116	-0.03
18	t	Acetophenone	2.327	2.569	-10.4	129	-0.03
19	t	2-Methylphenol	1.612	1.731	-7.4	123	-0.03
20	t	2,2'-oxybis(1-Chloropropane	2.524	3.128	-23.9#	148	-0.03
21	t	3&4-Methylphenol	1.690	1.882	-11.4	129	-0.03
22	t	n-Nitroso-di-n-propylamine	1.263	1.503	-19.0	144	-0.03
23	t	Hexachloroethane	0.482	0.494	-2.5	119	-0.03
24	I	Naphthalene-d8	1.000	1.000	0.0	111	-0.03
25	S	Nitrobenzene-d5	0.388	0.454	-17.0	141	-0.03
26	t	Nitrobenzene	0.406	0.478	-17.7	141	-0.03
27	t	Quinoline	0.757	0.775	-2.4	121	-0.03
28	t	Isophorone	0.719	0.824	-14.6	136	-0.03
29	t	2-Nitrophenol	0.195	0.209	-7.2	121	-0.03
30	t	2,4-Dimethylphenol	0.356	0.392	-10.1	124	-0.03
31	t	Benzoic acid	0.283	0.271	4.2	105	-0.03
32	t	bis(2-Chloroethoxy)methane	0.422	0.455	-7.8	129	-0.03
33	t	2,4-Dichlorophenol	0.280	0.281	-0.4	116	-0.03
34	t	2,6-Dichlorophenol	0.275	0.278	-1.1	120	-0.03
35		1,3,5-Trichlorobenzene	0.307	0.307	0.0	118	-0.03
36	t	1,2,4-Trichlorobenzene	0.306	0.291	4.9	116	-0.03
37		1,2,3-Trichlorobenzene	0.296	0.292	1.4	116	-0.03
38	t	Naphthalene	1.131	1.147	-1.4	121	-0.03

Continuing Calibration Summary

Job Number: JB15113 **Sample:** E2M1983-CC1951
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2M45988.D
Project: 508 West 24th Street, Manhattan, NY

39	t	4-Chloroaniline	0.476	0.476	0.0	119	-0.03
40	t	2,3-Dichloroaniline	0.343	0.343	0.0	118	-0.03
41	t	Caprolactam	0.185	0.245	-32.4#	149	-0.05
42	t	Hexachlorobutadiene	0.143	0.150	-4.9	125	-0.03
43	t	4-Chloro-3-methylphenol	0.320	0.368	-15.0	130	-0.04
44	t	2-Methylnaphthalene	0.649	0.666	-2.6	123	-0.03
45	t	1-Methylnaphthalene	0.701	0.709	-1.1	117	-0.03
46	t	Dimethylnaphthalene	0.614	0.622	-1.3	117	-0.03
47	I	Acenaphthene-d10	1.000	1.000	0.0	105	-0.03
48	t	Hexachlorocyclopentadiene	0.252	0.267	-6.0	104	-0.03
49	t	2,4,6-Trichlorophenol	0.332	0.343	-3.3	114	-0.03
50	t	2,4,5-Trichlorophenol	0.363	0.363	0.0	108	-0.04
51	S	2-Fluorobiphenyl	1.255	1.256	-0.1	115	-0.03
52	t	2-Chloronaphthalene	1.144	1.146	-0.2	113	-0.03
53	t	Biphenyl	1.504	1.561	-3.8	117	-0.03
54	t	2-Nitroaniline	0.387	0.535	-38.2#	151	-0.03
55	t	Dimethylphthalate	1.310	1.323	-1.0	117	-0.03
56	t	Acenaphthylene	1.878	2.019	-7.5	118	-0.03
57	t	2,6-Dinitrotoluene	0.286	0.296	-3.5	113	-0.03
58	t	3-Nitroaniline	0.374	0.407	-8.8	117	-0.03
59	t	Acenaphthene	1.183	1.240	-4.8	118	-0.03
60	t	2,4-Dinitrophenol	0.160	0.131	18.1	90	-0.04
61	t	4-Nitrophenol	0.158	0.187	-18.4	122	-0.04
62	t	Dibenzofuran	1.652	1.646	0.4	115	-0.03
63	t	2,4-Dinitrotoluene	0.399	0.419	-5.0	115	-0.03
64		2,3,4,6-Tetrachlorophenol	0.274	0.257	6.2	103	-0.04
65	t	Diethylphthalate	1.308	1.383	-5.7	123	-0.03
66	t	Fluorene	1.290	1.347	-4.4	117	-0.03
67	t	4-Chlorophenyl-phenylether	0.593	0.591	0.3	117	-0.03
68	t	4-Nitroaniline	0.384	0.403	-4.9	114	-0.04
69	I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.03
70	t	4,6-Dinitro-2-methylphenol	0.140	0.142	-1.4	104	-0.03
71	t	n-Nitrosodiphenylamine	0.596	0.599	-0.5	114	-0.03
72	t	1,2-Diphenylhydrazine	0.939	1.192	-26.9#	142	-0.03
73	S	2,4,6-Tribromophenol	0.078	0.088	-12.8	128	-0.04
74	t	4-Bromophenyl-phenylether	0.179	0.190	-6.1	119	-0.03
75	t	Hexachlorobenzene	0.185	0.193	-4.3	120	-0.03
76	t	Pentachlorophenol	0.118	0.113	4.2	98	-0.03
77	t	Phenanthrene	1.191	1.202	-0.9	116	-0.04
78	t	Anthracene	1.175	1.236	-5.2	117	-0.04
79	t	Carbazole	1.118	1.148	-2.7	115	-0.04
80	t	Di-n-butylphthalate	1.281	1.419	-10.8	120	-0.03
81	t	Fluoranthene	1.127	1.150	-2.0	114	-0.04
82	t	Octadecane	0.589	0.829	-40.7#	150	-0.03
83	I	Chrysene-d12	1.000	1.000	0.0	115	-0.03
84	t	Pyrene	1.350	1.310	3.0	117	-0.04
85	S	Terphenyl-d14	0.786	0.744	5.3	118	-0.03
86	t	Butylbenzylphthalate	0.626	0.685	-9.4	124	-0.03
87		Butyl stearate	0.409	0.537	-31.3#	144	-0.03
88	t	Benzo[a]anthracene	1.208	1.174	2.8	119	-0.03
89	t	3,3'-Dichlorobenzidine	0.399	0.440	-10.3	131	-0.03
90	t	Chrysene	1.154	1.109	3.9	123	-0.03
91	t	bis(2-Ethylhexyl)phthalate	0.865	0.937	-8.3	122	-0.02
92	I	Perylene-d12	1.000	1.000	0.0	115	-0.03
93	t	Di-n-octylphthalate	1.645	1.882	-14.4	125	-0.02
94	t	Benzo[b]fluoranthene	1.310	1.280	2.3	121	-0.03

Continuing Calibration Summary

Job Number: JB15113 **Sample:** E2M1983-CC1951
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2M45988.D
Project: 508 West 24th Street, Manhattan, NY

95	t	Benzo[k]fluoranthene	1.234	1.364	-10.5	134	-0.03
96	t	Benzo[a]pyrene	1.174	1.206	-2.7	119	-0.03
97	t	Indeno[1,2,3-cd]pyrene	1.335	1.466	-9.8	128	-0.03
98	t	Dibenz(a,h)acridine	0.973	1.080	-11.0	126	-0.03
99	t	Dibenz[a,h]anthracene	1.128	1.247	-10.5	127	-0.03
100	t	7,12-Dimethylbenz(a)anthrac	0.607	0.639	-5.3	128	-0.03
101	t	Benzo[g,h,i]perylene	1.125	1.237	-10.0	128	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Wed Sep 05 14:03:08 2012 MS2M

7.7.11

7

Continuing Calibration Summary

Job Number: JB15113 **Sample:** E2M1983-CC1952
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2M45989.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\e2m1983\
Data File : 2m45989.D
Acq On    :  1 Sep 2012  10:09 am
Operator  : kristis
Sample    : cc1952-50
Misc      : op59374,e2m1983,1000,,,1,1
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Sep 05 14:03:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2M1951.M
Quant Title  : Semi Volatile GC/MS, ZB-5 15mx .25mmx .25um
QLast Update : Fri Aug 31 15:05:52 2012
Response via : Initial Calibration


Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	120	-0.03
103	Benzaldehyde	1.394	1.252	10.2	108	-0.04
104	Acenaphthene-d10a	1.000	1.000	0.0	104	-0.04
105	1,2,4,5-Tetrachlorobenzene	0.452	0.499	-10.4	118	-0.05
106	Chrysene-d12a	1.000	1.000	0.0	112	-0.03
107	Benzidine	0.764	0.802	-5.0	120	-0.04
108	Phenanthrene-d10a	1.000	1.000	0.0	104	-0.04
109	Atrazine	0.101	0.118	-16.8	108	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2M1951.M Wed Sep 05 14:04:23 2012 MS2M

New Jersey

ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59484-MB1	1G83086.D	1	09/04/12	DS	08/31/12	OP59484	G1G2756

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.50	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.43	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.34	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.39	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.49	ug/kg	
72-20-8	Endrin	ND	0.67	0.34	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.60	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.41	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.47	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.43	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	23-137%
877-09-8	Tetrachloro-m-xylene	88%	23-137%
2051-24-3	Decachlorobiphenyl	89%	22-160%
2051-24-3	Decachlorobiphenyl	84%	22-160%

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59484-MB1	4G22344.D	1	09/05/12	DS	08/31/12	OP59484	G4G575

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.50	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.43	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.34	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.39	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.49	ug/kg	
72-20-8	Endrin	ND	0.67	0.34	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.60	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.41	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.47	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.43	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	85%	23-137%
877-09-8	Tetrachloro-m-xylene	88%	23-137%
2051-24-3	Decachlorobiphenyl	89%	22-160%
2051-24-3	Decachlorobiphenyl	93%	22-160%

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59496-MB1	5G4477.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-5

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0095	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0062	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0041	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0023	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0036	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0030	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0060	ug/l	
72-20-8	Endrin	ND	0.010	0.0064	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0064	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0029	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0041	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0030	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0028	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0084	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0038	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0082	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	26-145%
877-09-8	Tetrachloro-m-xylene	117%	26-145%
2051-24-3	Decachlorobiphenyl	83%	10-141%
2051-24-3	Decachlorobiphenyl	102%	10-141%

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59485-MB1	EF112170.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-1, JB15113-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.8	ug/kg	
37324-23-5	Aroclor 1262	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	22-141%
877-09-8	Tetrachloro-m-xylene	81%	22-141%
2051-24-3	Decachlorobiphenyl	72%	18-163%
2051-24-3	Decachlorobiphenyl	82%	18-163%

Method Blank Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59495-MB1	XX123506.D	1	09/05/12	HQ	08/31/12	OP59495	GXX4458

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	90%	27-144%
877-09-8	Tetrachloro-m-xylene	96%	27-144%
2051-24-3	Decachlorobiphenyl	70%	10-139%
2051-24-3	Decachlorobiphenyl	72%	10-139%

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59484-BS1	1G83099.D	1	09/05/12	DS	08/31/12	OP59484	G1G2757

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	15.7	13.6	86	57-149
319-84-6	alpha-BHC	15.7	13.5	86	56-150
319-85-7	beta-BHC	15.7	13.4	85	58-143
319-86-8	delta-BHC	15.7	14.5	92	36-152
58-89-9	gamma-BHC (Lindane)	15.7	13.6	86	57-149
5103-71-9	alpha-Chlordane	15.7	13.3	85	58-147
5103-74-2	gamma-Chlordane	15.7	13.5	86	57-151
60-57-1	Dieldrin	15.7	13.9	88	62-152
72-54-8	4,4'-DDD	15.7	14.2	90	59-151
72-55-9	4,4'-DDE	15.7	13.9	88	57-151
50-29-3	4,4'-DDT	15.7	15.3	97	54-155
72-20-8	Endrin	15.7	13.8	88	58-151
1031-07-8	Endosulfan sulfate	15.7	15.8	100	56-152
7421-93-4	Endrin aldehyde	15.7	14.3	91	49-134
959-98-8	Endosulfan-I	15.7	13.8	88	57-150
33213-65-9	Endosulfan-II	15.7	14.0	89	60-146
76-44-8	Heptachlor	15.7	13.8	88	52-150
1024-57-3	Heptachlor epoxide	15.7	13.6	86	56-147
72-43-5	Methoxychlor	15.7	15.7	100	53-154
53494-70-5	Endrin ketone	15.7	16.0	102	58-147

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	23-137%
877-09-8	Tetrachloro-m-xylene	78%	23-137%
2051-24-3	Decachlorobiphenyl	93%	22-160%
2051-24-3	Decachlorobiphenyl	86%	22-160%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59496-BS1	5G4478.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.29	116	50-144
319-84-6	alpha-BHC	0.25	0.28	112	56-151
319-85-7	beta-BHC	0.25	0.28	112	59-143
319-86-8	delta-BHC	0.25	0.30	120	43-146
58-89-9	gamma-BHC (Lindane)	0.25	0.27	108	60-147
5103-71-9	alpha-Chlordane	0.25	0.24	96	59-144
5103-74-2	gamma-Chlordane	0.25	0.26	104	58-148
60-57-1	Dieldrin	0.25	0.28	112	62-151
72-54-8	4,4'-DDD	0.25	0.28	112	57-153
72-55-9	4,4'-DDE	0.25	0.27	108	56-149
50-29-3	4,4'-DDT	0.25	0.29	116	54-161
72-20-8	Endrin	0.25	0.26	104	60-150
1031-07-8	Endosulfan sulfate	0.25	0.30	120	60-151
7421-93-4	Endrin aldehyde	0.25	0.28	112	51-138
53494-70-5	Endrin ketone	0.25	0.28	112	56-153
959-98-8	Endosulfan-I	0.25	0.29	116	59-146
33213-65-9	Endosulfan-II	0.25	0.28	112	59-146
76-44-8	Heptachlor	0.25	0.24	96	55-143
1024-57-3	Heptachlor epoxide	0.25	0.27	108	60-144

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	100%	26-145%
877-09-8	Tetrachloro-m-xylene	110%	26-145%
2051-24-3	Decachlorobiphenyl	76%	10-141%
2051-24-3	Decachlorobiphenyl	98%	10-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59485-BS1	EF112171.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-1, JB15113-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	139	104	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	131	98	66-150
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	75%	22-141%
877-09-8	Tetrachloro-m-xylene	91%	22-141%
2051-24-3	Decachlorobiphenyl	78%	18-163%
2051-24-3	Decachlorobiphenyl	90%	18-163%

(a) Advisory control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59495-BS1	XX123507.D	1	09/05/12	HQ	08/31/12	OP59495	GXX4458

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.4	120	63-154
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	2	2.5	125	60-151
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	98%	27-144%
877-09-8	Tetrachloro-m-xylene	103%	27-144%
2051-24-3	Decachlorobiphenyl	66%	10-139%
2051-24-3	Decachlorobiphenyl	69%	10-139%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59496-MS	5G4515.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109
OP59496-MSD	5G4516.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109
JB15014-1	5G4517.D	1	09/05/12	HQ	08/31/12	OP59496	G5G109

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-5

CAS No.	Compound	JB15014-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.33		0.5	0.85	104	0.5	1.1	154	26	36-160/39
319-84-6	alpha-BHC	ND		0.5	0.43	86	0.5	0.38	76	12	36-172/37
319-85-7	beta-BHC	ND		0.5	21.3	2400* [a]	0.5	22.4	2700* [a]	5	37-170/38
319-86-8	delta-BHC	ND		0.5	0.83	166	0.5	0.88	176* [a]	6	22-173/34
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.53	106	0.5	0.54	108	2	39-166/36
5103-71-9	alpha-Chlordane	ND		0.5	1.1	220* [a]	0.5	1.1	220* [a]	0	36-162/36
5103-74-2	gamma-Chlordane	ND		0.5	0.65	130	0.5	0.69	138	6	26-173/34
60-57-1	Dieldrin	ND		0.5	0.63	126	0.5	0.68	136	8	40-169/35
72-54-8	4,4'-DDD	ND		0.5	1.2	240* [a]	0.5	1.4	280* [a]	15	38-164/36
72-55-9	4,4'-DDE	ND		0.5	0.64	128	0.5	0.68	136	6	30-169/36
50-29-3	4,4'-DDT	ND		0.5	0.60	120	0.5	0.74	148	21	33-180/40
72-20-8	Endrin	ND		0.5	0.91	182* [a]	0.5	0.95	190* [a]	4	40-173/35
1031-07-8	Endosulfan sulfate	ND		0.5	0.69	138	0.5	0.68	136	1	36-171/34
7421-93-4	Endrin aldehyde	ND		0.5	0.37	74	0.5	0.44	88	17	23-158/39
53494-70-5	Endrin ketone	ND		0.5	0.69	138	0.5	0.86	172* [a]	22	39-169/34
959-98-8	Endosulfan-I	ND		0.5	0.77	154	0.5	0.83	166* [a]	7	32-164/36
33213-65-9	Endosulfan-II	ND		0.5	0.56	112	0.5	0.67	134	18	35-168/34
76-44-8	Heptachlor	ND		0.5	1.9	380* [a]	0.5	2.5	500* [a]	27	33-163/40
1024-57-3	Heptachlor epoxide	ND		0.5	0.48	96	0.5	0.56	112	15	29-175/37
72-43-5	Methoxychlor	ND		0.5	1.2	240* [a]	0.5	1.3	260* [a]	8	41-179/38
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JB15014-1	Limits
877-09-8	Tetrachloro-m-xylene	215%* [a]	240%* [a]	442%* [a]	26-145%
877-09-8	Tetrachloro-m-xylene	512%* [a]	489%* [a]	83%	26-145%
2051-24-3	Decachlorobiphenyl	117%	91%	73%	10-141%
2051-24-3	Decachlorobiphenyl	103%	105%	99%	10-141%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59484-MS	1G83264.D	1	09/10/12	DS	08/31/12	OP59484	G1G2760
OP59484-MSD	1G83265.D	1	09/10/12	DS	08/31/12	OP59484	G1G2760
JB15128-2A	1G83105.D	1	09/05/12	DS	08/31/12	OP59484	G1G2757

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-1, JB15113-3

CAS No.	Compound	JB15128-2A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		24.4	13.7	56	23.7	16.9	71	21	21-171/47
319-84-6	alpha-BHC	ND		24.4	21.1	86	23.7	18.8	79	12	23-174/44
319-85-7	beta-BHC	ND		24.4	23.1	95	23.7	18.1	76	24	14-172/46
319-86-8	delta-BHC	ND		24.4	12.2	50	23.7	12.6	53	3	8-164/48
58-89-9	gamma-BHC (Lindane)	ND		24.4	13.1	54	23.7	13.6	57	4	23-163/45
5103-71-9	alpha-Chlordane	ND		24.4	11.1	45	23.7	11.7	49	5	20-170/45
5103-74-2	gamma-Chlordane	ND		24.4	12.0	49	23.7	12.7	54	6	19-165/47
60-57-1	Dieldrin	ND		24.4	12.5	51	23.7	13.4	57	7	22-173/46
72-54-8	4,4'-DDD	ND		24.4	11.9	49	23.7	12.8	54	7	18-179/46
72-55-9	4,4'-DDE	ND		24.4	12.7	52	23.7	12.4	52	2	20-188/44
50-29-3	4,4'-DDT	ND		24.4	25.0	102	23.7	23.5	99	6	21-193/47
72-20-8	Endrin	ND		24.4	15.3	63	23.7	16.3	69	6	26-172/48
1031-07-8	Endosulfan sulfate	ND		24.4	12.4	51	23.7	10.6	45	16	1-159/52
7421-93-4	Endrin aldehyde	ND		24.4	15.1	62	23.7	15.9	67	5	1-134/56
959-98-8	Endosulfan-I	ND		24.4	10.6	43	23.7	11.0	46	4	20-156/43
33213-65-9	Endosulfan-II	ND		24.4	11.8	48	23.7	12.2	51	3	10-158/50
76-44-8	Heptachlor	ND		24.4	15.2	62	23.7	13.1	55	15	27-163/46
1024-57-3	Heptachlor epoxide	ND		24.4	13.1	54	23.7	13.7	58	4	21-161/47
72-43-5	Methoxychlor	ND		24.4	72.1	295* [a]	23.7	78.6	332* [a]	9	7-192/51
53494-70-5	Endrin ketone	ND		24.4	18.5	76	23.7	20.5	86	10	1-176/49
8001-35-2	Toxaphene	ND			ND			ND		nc	32-165/30

CAS No.	Surrogate Recoveries	MS	MSD	JB15128-2A	Limits
877-09-8	Tetrachloro-m-xylene	61%	61%	62%	23-137%
877-09-8	Tetrachloro-m-xylene	47%	46%	72%	23-137%
2051-24-3	Decachlorobiphenyl	435%* [a]	207%* [a]	316%* [a]	22-160%
2051-24-3	Decachlorobiphenyl	414%* [a]	208%* [a]	319%* [a]	22-160%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59485-MS	EF112178.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566
OP59485-MSD	EF112179.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566
JB15128-5A	EF112177.D	1	09/04/12	GAD	08/31/12	OP59485	GEF4566

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-1, JB15113-3

CAS No.	Compound	JB15128-5A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		147	107	73	147	124	85	15	28-185/42
11104-28-2	Aroclor 1221	ND			ND			ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND			ND		nc	70-130/13
11097-69-1	Aroclor 1254	ND			ND			ND		nc	70-130/20
11096-82-5	Aroclor 1260	ND		147	189	128	147	174	119	8	20-190/43
11100-14-4	Aroclor 1268	ND			ND			ND		nc	-/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	-/30

CAS No.	Surrogate Recoveries	MS	MSD	JB15128-5A	Limits
877-09-8	Tetrachloro-m-xylene	68%	67%	58%	22-141%
877-09-8	Tetrachloro-m-xylene	139%	138%	80%	22-141%
2051-24-3	Decachlorobiphenyl	334%* b	285%* b	309%* a	18-163%
2051-24-3	Decachlorobiphenyl	358%* b	304%* b	331%* a	18-163%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59495-MS	2G71125.D	1	09/06/12	HQ	08/31/12	OP59495	G2G2459
OP59495-MSD	2G71126.D	1	09/06/12	HQ	08/31/12	OP59495	G2G2459
JB15106-1	2G71127.D	1	09/06/12	HQ	08/31/12	OP59495	G2G2459

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-5

CAS No.	Compound	JB15106-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		4	5.9	148	4	6.8	170	14	50-171/34
11104-28-2	Aroclor 1221	ND			ND			ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND			ND		nc	70-130/30
11097-69-1	Aroclor 1254	ND			ND			ND		nc	70-130/30
11096-82-5	Aroclor 1260	ND		4	4.5	113	4	5.8	145	25	34-166/36
11100-14-4	Aroclor 1268	ND			ND			ND		nc	-/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	-/30

CAS No.	Surrogate Recoveries	MS	MSD	JB15106-1	Limits
877-09-8	Tetrachloro-m-xylene	76%	80%	85%	27-144%
877-09-8	Tetrachloro-m-xylene	108%	118%	93%	27-144%
2051-24-3	Decachlorobiphenyl	57%	65%	65%	10-139%
2051-24-3	Decachlorobiphenyl	59%	68%	67%	10-139%

* = Outside of Control Limits.

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2750-DDT
Lab File ID: 1G82790.D
Instrument ID: GC1G
Injection Date: 08/27/12
Injection Time: 16:51

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	52771014	55954258
4,4'-DDE	68204604	51348208
4,4'-DDT	3654658664	2708847582
DDT Breakdown [a]	3.2 %	3.8 %
Endrin aldehyde	0	0
Endrin ketone	22131138	19668323
Endrin	2212953465	1744286784
Endrin Breakdown [b]	1 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G2750-IC2750	1G82792.D	08/27/12	17:38	00:47	Initial cal 1
G1G2750-IC2750	1G82793.D	08/27/12	17:53	01:02	Initial cal 2
G1G2750-IC2750	1G82794.D	08/27/12	18:09	01:17	Initial cal 5
G1G2750-IC2750	1G82795.D	08/27/12	18:24	01:32	Initial cal 10
G1G2750-ICC2750	1G82796.D	08/27/12	18:39	01:48	Initial cal 25
G1G2750-IC2750	1G82797.D	08/27/12	18:54	02:03	Initial cal 50
G1G2750-IC2750	1G82798.D	08/27/12	19:10	02:18	Initial cal 100
G1G2750-IC2750	1G82799.D	08/27/12	19:25	02:34	Initial cal 500
G1G2750-IC2750	1G82800.D	08/27/12	19:40	02:49	Initial cal 500
G1G2750-ICV2750	1G82801.D	08/27/12	19:56	03:04	Initial cal verification 25
G1G2750-ICV2750	1G82802.D	08/27/12	20:11	03:19	Initial cal verification 500
G1G2750-ICV2750	1G82803.D	08/27/12	20:26	03:35	Initial cal verification 500
G1G2751-CC2750	1G82804.D	08/27/12	20:42	03:50	Continuing cal 10

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G1G2756-DDT	**Injection Date:**	09/04/12
Lab File ID:	1G83084.D	**Injection Time:**	16:27
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	183417710	102498986
4,4'-DDE	82404264	40506779
4,4'-DDT	4102977997	2771001521
DDT Breakdown [a]	6.1 %	4.9 %
Endrin aldehyde	46438328	42222460
Endrin ketone	65132150	50270764
Endrin	2454128490	1785250066
Endrin Breakdown [b]	4.3 %	4.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59484-MB1	1G83086.D	09/04/12	18:51	02:23	Method Blank
ZZZZZZ	1G83090.D	09/04/12	20:06	03:39	(unrelated sample)
JB15076-2	1G83091.D	09/04/12	20:22	03:54	(used for QC only; not part of job JB15113)
ZZZZZZ	1G83092.D	09/04/12	20:53	04:25	(unrelated sample)
ZZZZZZ	1G83093.D	09/04/12	21:08	04:41	(unrelated sample)
G1G2756-CC2750	1G83094.D	09/04/12	21:54	05:27	Continuing cal 50
G1G2757-CC2750	1G83096.D	09/05/12	08:45	16:17	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2757-DDT
Lab File ID: 1G83097.D
Instrument ID: GC1G
Injection Date: 09/05/12
Injection Time: 09:05

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	145263213	33475916
4,4'-DDE	66511036	43102148
4,4'-DDT	4588222452	2953808246
DDT Breakdown [a]	4.4 %	2.5 %
Endrin aldehyde	0	0
Endrin ketone	31739388	21367317
Endrin	2729008304	1928896779
Endrin Breakdown [b]	1.1 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59484-BS1	1G83099.D	09/05/12	09:39	00:34	Blank Spike
JB15113-1	1G83100.D	09/05/12	09:54	00:49	043-PE 6A-0.5'-1'
ZZZZZZ	1G83101.D	09/05/12	10:09	01:04	(unrelated sample)
JB15083-1	1G83102.D	09/05/12	10:32	01:27	(used for QC only; not part of job JB15113)
OP59542-MS	1G83103.D	09/05/12	10:47	01:42	Matrix Spike
OP59542-MSD	1G83104.D	09/05/12	11:02	01:57	Matrix Spike Duplicate
JB15128-2A	1G83105.D	09/05/12	11:17	02:12	(used for QC only; not part of job JB15113)
ZZZZZZ	1G83106.D	09/05/12	11:32	02:27	(unrelated sample)
G1G2757-CC2750	1G83107.D	09/05/12	13:12	04:07	Continuing cal 50
OP59467-MS	1G83109.D	09/05/12	13:49	04:44	Matrix Spike
OP59467-MSD	1G83110.D	09/05/12	14:04	04:59	Matrix Spike Duplicate
OP59514-MB1	1G83111.D	09/05/12	14:19	05:14	Method Blank
OP59514-BS1	1G83112.D	09/05/12	14:34	05:29	Blank Spike
OP59514-MS	1G83113.D	09/05/12	14:49	05:44	Matrix Spike
OP59514-MSD	1G83114.D	09/05/12	15:03	05:58	Matrix Spike Duplicate
JB15222-3	1G83115.D	09/05/12	15:18	06:13	(used for QC only; not part of job JB15113)
G1G2757-CC2750	1G83116.D	09/05/12	15:34	06:29	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2760-DDT
Lab File ID: 1G83250.D
Instrument ID: GC1G
Injection Date: 09/10/12
Injection Time: 10:13

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	231225729	118219974
4,4'-DDE	102476510	38529060
4,4'-DDT	3284049553	2008068078
DDT Breakdown [a]	9.2 %	7.2 %
Endrin aldehyde	12084232	5638843
Endrin ketone	36812675	23480576
Endrin	2221641539	1454673386
Endrin Breakdown [b]	2.2 %	2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59613-MB1	1G83251.D	09/10/12	10:29	00:16	Method Blank
OP59613-BS1	1G83252.D	09/10/12	10:44	00:31	Blank Spike
G1G2760-CC2750	1G83256.D	09/10/12	12:48	02:35	Continuing cal 10
ZZZZZZ	1G83258.D	09/10/12	13:17	03:05	(unrelated sample)
ZZZZZZ	1G83259.D	09/10/12	13:32	03:19	(unrelated sample)
ZZZZZZ	1G83260.D	09/10/12	13:47	03:34	(unrelated sample)
ZZZZZZ	1G83261.D	09/10/12	14:01	03:49	(unrelated sample)
ZZZZZZ	1G83262.D	09/10/12	14:16	04:04	(unrelated sample)
ZZZZZZ	1G83263.D	09/10/12	14:43	04:31	(unrelated sample)
OP59484-MS	1G83264.D	09/10/12	14:58	04:45	Matrix Spike
OP59484-MSD	1G83265.D	09/10/12	15:20	05:08	Matrix Spike Duplicate
ZZZZZZ	1G83266.D	09/10/12	15:41	05:29	(unrelated sample)
G1G2760-CC2750	1G83267.D	09/10/12	16:13	06:00	Continuing cal 50
G1G2760-CC2750	1G83269.D	09/10/12	17:40	07:28	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G525-DDT	**Injection Date:**	06/26/12
Lab File ID:	4G20021.D	**Injection Time:**	14:06
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8242803	7317819
4,4'-DDE	3471102	4003463
4,4'-DDT	431062608	377521059
DDT Breakdown [a]	2.6 %	2.9 %
Endrin aldehyde	1446239	1646210
Endrin ketone	2494069	3055178
Endrin	246279073	220269813
Endrin Breakdown [b]	1.6 %	2.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G525-IC525	4G20023.D	06/26/12	14:34	00:28	Initial cal 1
G4G525-IC525	4G20024.D	06/26/12	14:49	00:43	Initial cal 2
G4G525-IC525	4G20025.D	06/26/12	15:03	00:57	Initial cal 5
G4G525-IC525	4G20026.D	06/26/12	15:33	01:27	Initial cal 10
G4G525-ICC525	4G20027.D	06/26/12	15:48	01:42	Initial cal 25
G4G525-IC525	4G20028.D	06/26/12	16:02	01:56	Initial cal 50
G4G525-IC525	4G20029.D	06/26/12	16:16	02:10	Initial cal 100
G4G525-IC525	4G20030.D	06/26/12	16:31	02:25	Initial cal 500
G4G525-IC525	4G20031.D	06/26/12	16:45	02:39	Initial cal 500
G4G525-ICV525	4G20032.D	06/26/12	16:59	02:53	Initial cal verification 25
G4G525-ICV525	4G20033.D	06/26/12	17:14	03:08	Initial cal verification 500
G4G525-ICV525	4G20034.D	06/26/12	17:28	03:22	Initial cal verification 500
G4G526-CC525	4G20035.D	06/26/12	17:43	03:37	Continuing cal 25
OP57916-BS1	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57915-BS1	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57874-BS2	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57915-LS7	4G20038.D	06/26/12	18:26	04:20	Leachate Spike
OP57916-LS8	4G20039.D	06/26/12	18:40	04:34	Leachate Spike
ZZZZZZ	4G20040.D	06/26/12	18:54	04:48	(unrelated sample)
ZZZZZZ	4G20041.D	06/26/12	19:09	05:03	(unrelated sample)
ZZZZZZ	4G20042.D	06/26/12	19:23	05:17	(unrelated sample)
G4G526-CC525	4G20043.D	06/26/12	20:06	06:00	Continuing cal 10
OP57871-MB1	4G20044.D	06/26/12	20:21	06:15	Method Blank
OP57871-BS1	4G20045.D	06/26/12	20:35	06:29	Blank Spike

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-DDT
Lab File ID: 4G20021.D
Instrument ID: GC4G
Injection Date: 06/26/12
Injection Time: 14:06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JB9481-1	4G20046.D	06/26/12	20:49	06:43	(used for QC only; not part of job JB15113)
OP57871-MSD	4G20048.D	06/26/12	21:33	07:27	Matrix Spike Duplicate
G4G526-CC525	4G20050.D	06/26/12	22:30	08:24	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G575-DDT	**Injection Date:**	09/05/12
Lab File ID:	4G22343.D	**Injection Time:**	09:55
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8680476	11644742
4,4'-DDE	22448742	21686723
4,4'-DDT	399179165	398233872
DDT Breakdown [a]	7.2 %	7.7 %
Endrin aldehyde	0	0
Endrin ketone	2629197	3496536
Endrin	263460442	258010309
Endrin Breakdown [b]	1 %	1.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59484-MB1	4G22344.D	09/05/12	10:09	00:14	Method Blank
ZZZZZZ	4G22345.D	09/05/12	10:24	00:29	(unrelated sample)
ZZZZZZ	4G22346.D	09/05/12	10:38	00:43	(unrelated sample)
ZZZZZZ	4G22347.D	09/05/12	10:53	00:58	(unrelated sample)
ZZZZZZ	4G22348.D	09/05/12	11:14	01:19	(unrelated sample)
ZZZZZZ	4G22349.D	09/05/12	11:29	01:34	(unrelated sample)
JB15113-3	4G22352.D	09/05/12	12:34	02:39	045-PE 7A-0.5'-1'
G4G575-CC525	4G22353.D	09/05/12	13:03	03:08	Continuing cal 25
OP59561-MB1	4G22354.D	09/05/12	13:21	03:26	Method Blank
OP59561-BS1	4G22355.D	09/05/12	13:36	03:41	Blank Spike
ZZZZZZ	4G22356.D	09/05/12	13:50	03:55	(unrelated sample)
ZZZZZZ	4G22358.D	09/05/12	14:19	04:24	(unrelated sample)
ZZZZZZ	4G22359.D	09/05/12	14:33	04:38	(unrelated sample)
ZZZZZZ	4G22360.D	09/05/12	14:48	04:53	(unrelated sample)
G4G575-CC525	4G22363.D	09/05/12	17:01	07:06	Continuing cal 10

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G5G96-DDT	**Injection Date:**	08/17/12
Lab File ID:	5G3882.D	**Injection Time:**	16:15
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	18668147	17559791
4,4'-DDE	3642856	4370989
4,4'-DDT	518850226	589935766
DDT Breakdown [a]	4.1 %	3.6 %
Endrin aldehyde	2704842	2955662
Endrin ketone	6970683	7008573
Endrin	302536368	338452155
Endrin Breakdown [b]	3.1 %	2.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G96-IC96	5G3883.D	08/17/12	16:38	00:23	Initial cal 1
G5G96-IC96	5G3884.D	08/17/12	16:53	00:38	Initial cal 2
G5G96-IC96	5G3885.D	08/17/12	17:09	00:54	Initial cal 5
G5G96-IC96	5G3886.D	08/17/12	17:24	01:09	Initial cal 10
G5G96-ICC96	5G3887.D	08/17/12	17:39	01:24	Initial cal 25
G5G96-IC96	5G3888.D	08/17/12	17:55	01:40	Initial cal 50
G5G96-IC96	5G3889.D	08/17/12	18:10	01:55	Initial cal 100
G5G96-IC96	5G3890.D	08/17/12	18:26	02:11	Initial cal 500
G5G96-IC96	5G3891.D	08/17/12	18:41	02:26	Initial cal 500
G5G96-ICV96	5G3892.D	08/17/12	18:56	02:41	Initial cal verification 25
G5G96-ICV96	5G3893.D	08/17/12	19:12	02:57	Initial cal verification 500
G5G96-ICV96	5G3894.D	08/17/12	19:27	03:12	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G5G109-DDT	**Injection Date:**	09/05/12
Lab File ID:	5G4471.D	**Injection Time:**	09:17
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	19373425	17303530
4,4'-DDE	3961212	3551562
4,4'-DDT	515584695	651955624
DDT Breakdown [a]	4.3 %	3.1 %
Endrin aldehyde	940720	4493644
Endrin ketone	7969939	9183832
Endrin	297746255	377098053
Endrin Breakdown [b]	2.9 %	3.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59508-MB1	5G4472.D	09/05/12	09:32	00:15	Method Blank
OP59508-BS1	5G4473.D	09/05/12	09:47	00:30	Blank Spike
ZZZZZZ	5G4474.D	09/05/12	10:03	00:46	(unrelated sample)
ZZZZZZ	5G4475.D	09/05/12	10:18	01:01	(unrelated sample)
ZZZZZZ	5G4476.D	09/05/12	10:34	01:17	(unrelated sample)
OP59496-MB1	5G4477.D	09/05/12	10:49	01:32	Method Blank
OP59496-BS1	5G4478.D	09/05/12	11:05	01:48	Blank Spike
JB15113-5	5G4479.D	09/05/12	11:20	02:03	047 FB-1
ZZZZZZ	5G4480.D	09/05/12	11:35	02:18	(unrelated sample)
G5G109-CC96	5G4481.D	09/05/12	11:55	02:38	Continuing cal 10
OP59382-MB3	5G4482.D	09/05/12	12:33	03:16	Method Blank
OP59555-MB1	5G4482.D	09/05/12	12:33	03:16	Method Blank
OP59382-BS3	5G4483.D	09/05/12	12:48	03:31	Blank Spike
OP59555-BS1	5G4483.D	09/05/12	12:48	03:31	Blank Spike
ZZZZZZ	5G4484.D	09/05/12	13:03	03:46	(unrelated sample)
ZZZZZZ	5G4485.D	09/05/12	13:18	04:01	(unrelated sample)
ZZZZZZ	5G4486.D	09/05/12	13:34	04:17	(unrelated sample)
ZZZZZZ	5G4487.D	09/05/12	13:49	04:32	(unrelated sample)
ZZZZZZ	5G4488.D	09/05/12	14:05	04:48	(unrelated sample)
G5G109-CC96	5G4489.D	09/05/12	14:22	05:05	Continuing cal 25
G5G109-CC96	5G4491.D	09/05/12	15:40	06:23	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G5G109-DDT	**Injection Date:**	09/05/12
Lab File ID:	5G4492.D	**Injection Time:**	15:56
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	18125701	16991467
4,4'-DDE	3429220	2960201
4,4'-DDT	499687144	631556927
DDT Breakdown [a]	4.1 %	3.1 %
Endrin aldehyde	3862904	4800002
Endrin ketone	6989214	9727360
Endrin	288563773	366176778
Endrin Breakdown [b]	3.6 %	3.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JB15147-10	5G4493.D	09/05/12	16:32	00:36	(used for QC only; not part of job JB15113)
ZZZZZZ	5G4494.D	09/05/12	16:47	00:51	(unrelated sample)
OP59508-MS	5G4495.D	09/05/12	17:02	01:06	Matrix Spike
OP59508-MSD	5G4496.D	09/05/12	17:18	01:22	Matrix Spike Duplicate
ZZZZZZ	5G4497.D	09/05/12	17:33	01:37	(unrelated sample)
ZZZZZZ	5G4498.D	09/05/12	17:49	01:53	(unrelated sample)
ZZZZZZ	5G4499.D	09/05/12	18:04	02:08	(unrelated sample)
OP59382-LB15	5G4500.D	09/05/12	18:19	02:23	Leachate Blank
OP59555-LB17	5G4500.D	09/05/12	18:19	02:23	Leachate Blank
OP59555-LB18	5G4500.D	09/05/12	18:19	02:23	Leachate Blank
G5G109-CC96	5G4501.D	09/05/12	18:50	02:54	Continuing cal 10
OP59555-LS11	5G4503.D	09/05/12	19:21	03:25	Leachate Spike
ZZZZZZ	5G4504.D	09/05/12	19:36	03:40	(unrelated sample)
ZZZZZZ	5G4505.D	09/05/12	19:52	03:56	(unrelated sample)
ZZZZZZ	5G4506.D	09/05/12	20:07	04:11	(unrelated sample)
ZZZZZZ	5G4507.D	09/05/12	20:22	04:26	(unrelated sample)
ZZZZZZ	5G4508.D	09/05/12	20:38	04:42	(unrelated sample)
ZZZZZZ	5G4511.D	09/05/12	20:53	04:57	(unrelated sample)
G5G109-CC96	5G4512.D	09/05/12	21:24	05:28	Continuing cal 25
ZZZZZZ	5G4514.D	09/05/12	21:55	05:59	(unrelated sample)
OP59496-MS	5G4515.D	09/05/12	22:10	06:14	Matrix Spike
OP59496-MSD	5G4516.D	09/05/12	22:25	06:29	Matrix Spike Duplicate
JB15014-1	5G4517.D	09/05/12	22:41	06:45	(used for QC only; not part of job JB15113)
ZZZZZZ	5G4518.D	09/05/12	22:56	07:00	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G5G109-DDT
Lab File ID: 5G4492.D
Instrument ID: GC5G
Injection Date: 09/05/12
Injection Time: 15:56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5G4519.D	09/05/12	23:11	07:15	(unrelated sample)
ZZZZZZ	5G4520.D	09/05/12	23:27	07:31	(unrelated sample)
ZZZZZZ	5G4521.D	09/05/12	23:42	07:46	(unrelated sample)
G5G109-CC96	5G4522.D	09/06/12	00:13	08:17	Continuing cal 10
G5G110-IC110	5G4525.D	09/06/12	09:38	17:42	Initial cal 50
G5G110-IC110	5G4526.D	09/06/12	09:53	17:57	Initial cal 100
G5G110-IC110	5G4527.D	09/06/12	10:08	18:12	Initial cal 200
G5G110-ICC110	5G4528.D	09/06/12	10:24	18:28	Initial cal 500
G5G110-IC110	5G4529.D	09/06/12	10:39	18:43	Initial cal 1000
G5G110-ICV110	5G4530.D	09/06/12	10:54	18:58	Initial cal verification 500
G5G111-CC96	5G4531.D	09/06/12	11:43	19:47	Continuing cal 25
G5G111-CC110	5G4532.D	09/06/12	11:58	20:02	Continuing cal 200

Semivolatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-5	5G4479.D	97	110	67	83
OP59496-BS1	5G4478.D	100	110	76	98
OP59496-MB1	5G4477.D	97	117	83	102
OP59496-MS	5G4515.D	215* [c]	512* [c]	117	103
OP59496-MSD	5G4516.D	240* [c]	489* [c]	91	105

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-145%
S2 = Decachlorobiphenyl	10-141%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-1	1G83100.D	89	84	103	98
JB15113-3	4G22352.D	79	85	247* [c]	216* [c]
OP59484-BS1	1G83099.D	82	78	93	86
OP59484-MB1	1G83086.D	97	88	89	84
OP59484-MB1	4G22344.D	85	88	89	93
OP59484-MS	1G83264.D	61	47	435* [c]	414* [c]
OP59484-MSD	1G83265.D	61	46	207* [c]	208* [c]

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	23-137%
S2 = Decachlorobiphenyl	22-160%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-5	XX123508.D	78	85	50	51
OP59495-BS1	XX123507.D	98	103	66	69
OP59495-MB1	XX123506.D	90	96	70	72
OP59495-MS	2G71125.D	76	108	57	59
OP59495-MSD	2G71126.D	80	118	65	68

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-144%
S2 = Decachlorobiphenyl	10-139%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Semivolatile Surrogate Recovery Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-1	EF112202.D	82	99	84	82
JB15113-3	EF112204.D	87	117	62	84
OP59485-BS1	EF112171.D	75	91	78	90
OP59485-MB1	EF112170.D	74	81	72	82
OP59485-MS	EF112178.D	68	139	334* [c]	358* [c]
OP59485-MSD	EF112179.D	67	138	285* [c]	304* [c]

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	22-141%
S2 = Decachlorobiphenyl	18-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G1G2756-CC2750	**Injection Date:**	09/04/12
Lab File ID:	1G83083.D	**Injection Time:**	16:00
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.47	2.00	10.41	10.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59484-MB1	1G83086.D	09/04/12	18:51	2.49	2.00	10.42	10.28
ZZZZZZ	1G83090.D	09/04/12	20:06	2.48	2.00	10.41	10.28
JB15076-2	1G83091.D	09/04/12	20:22	2.48	2.01	10.41	10.28
ZZZZZZ	1G83092.D	09/04/12	20:53	2.48	2.01	10.41	10.28
ZZZZZZ	1G83093.D	09/04/12	21:08	2.48	2.01	10.41	10.28

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G1G2757-CC2750	**Injection Date:**	09/05/12
Lab File ID:	1G83096.D	**Injection Time:**	08:45
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.42	1.95	10.40	10.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59484-BS1	1G83099.D	09/05/12	09:39	2.43	1.96	10.41	10.28
JB15113-1	1G83100.D	09/05/12	09:54	2.43	1.96	10.41	10.28
ZZZZZZ	1G83101.D	09/05/12	10:09	2.43	1.96	10.41	10.28
JB15083-1	1G83102.D	09/05/12	10:32	2.45	1.96	10.42	10.28
OP59542-MS	1G83103.D	09/05/12	10:47	2.43	1.96	10.41	10.28
OP59542-MSD	1G83104.D	09/05/12	11:02	2.43	1.96	10.41	10.28
JB15128-2A	1G83105.D	09/05/12	11:17	2.44	1.96	10.41	10.28
ZZZZZZ	1G83106.D	09/05/12	11:32	2.44	1.96	10.41	10.28

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G1G2760-CC2750	**Injection Date:**	09/10/12
Lab File ID:	1G83256.D	**Injection Time:**	12:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.44	1.96	10.41	10.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	1G83258.D	09/10/12	13:17	2.43	1.96	10.40	10.27
ZZZZZZ	1G83259.D	09/10/12	13:32	2.43	1.96	10.41	10.28
ZZZZZZ	1G83260.D	09/10/12	13:47	2.43	1.96	10.41	10.28
ZZZZZZ	1G83261.D	09/10/12	14:01	2.43	1.96	10.41	10.28
ZZZZZZ	1G83262.D	09/10/12	14:16	2.43	1.96	10.41	10.28
ZZZZZZ	1G83263.D	09/10/12	14:43	2.43	1.96	10.40	10.27
OP59484-MS	1G83264.D	09/10/12	14:58	2.44	1.97	10.41	10.28
OP59484-MSD	1G83265.D	09/10/12	15:20	2.44	1.96	10.40	10.27
ZZZZZZ	1G83266.D	09/10/12	15:41	2.43	1.96	10.40	10.27

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G4G575-CC525	**Injection Date:**	09/05/12
Lab File ID:	4G22342.D	**Injection Time:**	09:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.25	2.05	9.73	9.94

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59484-MB1	4G22344.D	09/05/12	10:09	2.25	2.05	9.73	9.94
ZZZZZZ	4G22345.D	09/05/12	10:24	2.25	2.06	9.72	9.93
ZZZZZZ	4G22346.D	09/05/12	10:38	2.25	2.06	9.72	9.93
ZZZZZZ	4G22347.D	09/05/12	10:53	2.25	2.06	9.72	9.93
ZZZZZZ	4G22348.D	09/05/12	11:14	2.25	2.06	9.72	9.94
ZZZZZZ	4G22349.D	09/05/12	11:29	2.25	2.06	9.72	9.93
JB15113-3	4G22352.D	09/05/12	12:34	2.25	2.06	9.72	9.93

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G5G109-CC96	**Injection Date:**	09/05/12
Lab File ID:	5G4470.D	**Injection Time:**	08:51
Instrument ID:	GC5G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.50	2.27	10.41	10.53

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59508-MB1	5G4472.D	09/05/12	09:32	2.50	2.27	10.41	10.53
OP59508-BS1	5G4473.D	09/05/12	09:47	2.50	2.27	10.41	10.53
ZZZZZZ	5G4474.D	09/05/12	10:03	2.50	2.27	10.41	10.53
ZZZZZZ	5G4475.D	09/05/12	10:18	2.50	2.27	10.41	10.53
ZZZZZZ	5G4476.D	09/05/12	10:34	2.50	2.27	10.41	10.53
OP59496-MB1	5G4477.D	09/05/12	10:49	2.50	2.27	10.41	10.53
OP59496-BS1	5G4478.D	09/05/12	11:05	2.50	2.27	10.41	10.53
JB15113-5	5G4479.D	09/05/12	11:20	2.50	2.27	10.41	10.53
ZZZZZZ	5G4480.D	09/05/12	11:35	2.50	2.27	10.41	10.53

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G5G109-CC96	**Injection Date:**	09/05/12
Lab File ID:	5G4512.D	**Injection Time:**	21:24
Instrument ID:	GC5G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.50	2.27	10.41	10.53

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	5G4514.D	09/05/12	21:55	2.50	2.27	10.41	10.53
OP59496-MS	5G4515.D	09/05/12	22:10	2.51	2.22	10.41	10.53
OP59496-MSD	5G4516.D	09/05/12	22:25	2.51	2.22	10.41	10.53
JB15014-1	5G4517.D	09/05/12	22:41	2.49	2.26	10.41	10.53
ZZZZZZ	5G4518.D	09/05/12	22:56	2.50	2.27	10.41	10.53
ZZZZZZ	5G4519.D	09/05/12	23:11	2.49	2.26	10.41	10.53
ZZZZZZ	5G4520.D	09/05/12	23:27	2.50	2.27	10.41	10.53
ZZZZZZ	5G4521.D	09/05/12	23:42	2.50	2.27	10.41	10.53

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G2G2459-CC2458	**Injection Date:**	09/06/12
Lab File ID:	2G71122.D	**Injection Time:**	17:32
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.82	2.27	10.69	9.77

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	2G71124.D	09/06/12	18:04	2.81	2.27	10.68	9.76
OP59495-MS	2G71125.D	09/06/12	18:21	2.81	2.27	10.68	9.76
OP59495-MSD	2G71126.D	09/06/12	18:37	2.81	2.27	10.68	9.76
JB15106-1	2G71127.D	09/06/12	18:54	2.81	2.27	10.68	9.76
ZZZZZZ	2G71128.D	09/06/12	19:10	2.81	2.27	10.68	9.76
ZZZZZZ	2G71129.D	09/06/12	19:27	2.80	2.27	10.68	9.76
ZZZZZZ	2G71130.D	09/06/12	19:43	2.81	2.27	10.68	9.76
ZZZZZZ	2G71131.D	09/06/12	20:00	2.81	2.27	10.68	9.76
ZZZZZZ	2G71132.D	09/06/12	20:16	2.81	2.27	10.68	9.76

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GEF4566-CC4548	**Injection Date:**	09/04/12
Lab File ID:	EF112169.D	**Injection Time:**	07:45
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.05	4.10	13.92	16.91

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59485-MB1	EF112170.D	09/04/12	08:12	3.05	4.11	13.93	16.92
OP59485-BS1	EF112171.D	09/04/12	08:36	3.05	4.11	13.91	16.90
ZZZZZZ	EF112172.D	09/04/12	09:07	3.06	4.11	13.93	16.91
ZZZZZZ	EF112173.D	09/04/12	09:32	3.09	4.19	13.94	16.92
ZZZZZZ	EF112174.D	09/04/12	09:56	3.05	4.11	13.91	16.91
ZZZZZZ	EF112175.D	09/04/12	10:20	3.04	3.94	13.92	16.91
ZZZZZZ	EF112176.D	09/04/12	10:44	3.03	3.94	13.93	16.91
JB15128-5A	EF112177.D	09/04/12	11:08	3.04	4.11	13.93	16.91
OP59485-MS	EF112178.D	09/04/12	11:32	3.05	4.11	13.92	16.91
OP59485-MSD	EF112179.D	09/04/12	11:56	3.05	4.12	13.93	16.91

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GEF4566-CC4548	**Injection Date:**	09/04/12
Lab File ID:	EF112200.D	**Injection Time:**	21:12
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.05	4.11	13.93	16.92

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JB15113-1	EF112202.D	09/04/12	22:00	3.05	4.11	13.93	16.91
JB15113-3	EF112204.D	09/04/12	22:48	3.05	4.11	13.92	16.91
JB15076-1	EF112206.D	09/04/12	23:36	3.05	4.11	13.93	16.92
ZZZZZZ	EF112207.D	09/05/12	00:00	3.06	4.11	13.93	16.92
ZZZZZZ	EF112208.D	09/05/12	00:24	3.06	4.11	13.93	16.91
ZZZZZZ	EF112209.D	09/05/12	00:48	3.06	4.12	13.93	16.92
ZZZZZZ	EF112210.D	09/05/12	01:12	3.05	4.11	13.93	16.92

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GXX4458-CC4415	**Injection Date:**	09/05/12
Lab File ID:	XX123505.D	**Injection Time:**	12:00
Instrument ID:	GCXX	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.54	3.18	9.63	11.36

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59495-MB1	XX123506.D	09/05/12	12:23	2.54	3.18	9.63	11.36
OP59495-BS1	XX123507.D	09/05/12	12:37	2.54	3.18	9.62	11.36
JB15113-5	XX123508.D	09/05/12	12:59	2.54	3.18	9.62	11.36
OP59399-MB1	XX123509.D	09/05/12	13:13	2.54	3.18	9.62	11.36
OP59399-BS1	XX123510.D	09/05/12	13:28	2.54	3.18	9.62	11.36
OP59399-MS	XX123511.D	09/05/12	13:49	2.54	3.18	9.62	11.36
OP59399-MSD	XX123512.D	09/05/12	14:04	2.53	3.18	9.62	11.36
JB14598-1	XX123513.D	09/05/12	14:22	2.53	3.18	9.62	11.36
ZZZZZZ	XX123514.D	09/05/12	14:36	2.55	3.19	9.60	11.40

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2750-ICC2750
Lab FileID: 1G82796.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue Aug 28 08:49:11 2012
Response via : Initial Calibration

Calibration Files
2 =1G82793.D 5 =1G82794.D 10 =1G82795.D 25 =1G82796.D
50 =1G82797.D 100 =1G82798.D 1 =1G82792.D

Compound	2	5	10	25	50	100	1	Avg		%RSD
1)SABTetrachloro-m-xyl	3.803	3.838	3.918	3.858	3.808	3.844	4.198	3.895	E7	3.56
2)A alpha-BHC	5.270	5.502	5.725	5.958	6.088	6.372	5.638	5.793	E7	6.44
3)MAgamma-BHC	4.945	5.089	5.244	5.409	5.502	5.731	5.450	5.339	E7	4.98
4)MAHeptachlor	4.550	4.739	4.816	4.877	4.915	5.040	4.783	4.817	E7	3.19
5)B beta-BHC	2.331	2.251	2.230	2.269	2.255	2.262	2.642	2.320	E7	6.27
6)B delta-BHC	4.647	4.576	4.754	4.940	5.056	5.344	5.197	4.931	E7	5.82
7)MBAldrin	4.707	4.893	5.028	5.148	5.183	5.348	4.939	5.035	E7	4.21
8)B Heptachlor Epoxid	4.722	4.673	4.713	4.731	4.691	4.747	4.835	4.730	E7	1.11
9)B gamma-Chlordane	5.372	5.729	5.296	4.977	4.939	5.040	5.264	5.231	E7	5.29
10)B alpha-Chlordane	4.518	5.161	4.965	4.818	4.801	4.918	5.454	4.948	E7	5.99
11)A Endosulfan I	4.447	4.394	4.508	4.542	4.591	4.632	4.528	4.520	E7	1.79
12)B 4,4'-DDE	3.799	4.364	4.318	4.373	4.431	4.602	4.699	4.369	E7	6.57
13)MADieldrin	4.331	4.613	4.596	4.808	4.808	4.913	5.080	4.735	E7	5.16
14)MAEndrin	4.334	4.273	4.366	4.408	4.375	4.425	4.887	4.438	E7	4.60
15)A 4,4'-DDD	3.681	3.767	3.790	3.960	3.917	4.009	4.279	3.915	E7	5.06
16)B Endosulfan II	3.933	4.007	4.023	4.111	4.086	4.094	4.616	4.124	E7	5.46
17)MA4,4'-DDT	2.562	2.656	2.767	3.135	3.246	3.477	3.286	3.018	E7	11.72
18)B Endrin Aldehyde	2.852	2.868	3.018	3.089	3.031	3.156	2.918	2.990	E7	3.83
19)B Endosulfan Sulfat	3.047	2.854	2.952	3.109	3.118	3.233	3.401	3.102	E7	5.80
20)A Methoxychlor	1.375	1.359	1.397	1.561	1.610	1.629	1.467	1.485	E7	7.69
21) Mirex	3.738	3.557	3.469	3.492	3.362	3.382	4.026	3.575	E7	6.58
22)B Endrin Ketone	3.141	3.311	3.264	3.407	3.351	3.544	3.252	3.324	E7	3.85
23)L8Toxaphene{A}					8.179			8.179	E5	0.00
24)L8Toxaphene{B}					1.391			1.391	E6	0.00
25)L8Toxaphene{C}					2.090			2.090	E6	0.00
26)L8Toxaphene{D}					1.333			1.333	E6	0.00
27)L8Toxaphene{E}					1.266			1.266	E6	0.00
28) Chlordane {A}					2.606			2.606	E6	0.00
29) Chlordane {B}					1.651			1.651	E6	0.00
30) Chlordane {C}					6.545			6.545	E6	0.00
31) Chlordane {D}					1.078			1.078	E7	0.00
32) Chlordane {E}					1.435			1.435	E6	0.00
33)SADecachlorobipheny	2.803	3.237	2.822	2.827	2.701	2.792	2.939	2.875	E7	6.06

Signal #2

1)SABTetrachloro-m-xyl	2.795	2.829	2.840	2.914	2.893	2.906	2.919	2.871	E7	1.70
2)A alpha-BHC	3.893	4.059	4.255	4.538	4.619	4.736	4.139	4.320	E7	7.30
3)MAgamma-BHC	3.612	3.745	3.898	4.112	4.157	4.256	3.739	3.931	E7	6.26
4)MAHeptachlor	3.619	3.689	3.807	3.910	3.910	3.920	3.902	3.822	E7	3.22
5)B beta-BHC	1.771	1.749	1.753	1.768	1.742	1.741	1.889	1.773	E7	2.96
6)B delta-BHC	3.012	3.159	3.326	3.601	3.707	3.865	3.212	3.412	E7	9.27
7)MBAldrin	3.467	3.582	3.724	3.884	3.917	3.955	3.332	3.694	E7	6.54
8)B Heptachlor Epoxid	3.330	3.415	3.520	3.556	3.537	3.493	3.445	3.471	E7	2.29
9)B gamma-Chlordane	3.326	3.381	3.497	3.615	3.659	3.719	3.395	3.513	E7	4.37
10)B alpha-Chlordane	3.349	3.385	3.472	3.579	3.588	3.634	3.426	3.491	E7	3.17
11)A Endosulfan I	3.122	3.163	3.230	3.333	3.307	3.301	3.230	3.241	E7	2.42

Initial Calibration Summary

Job Number: JB15113 **Sample:** G1G2750-ICC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G82796.D
Project: 508 West 24th Street, Manhattan, NY

12)B 4,4'-DDE	3.071	2.969	3.064	3.271	3.326	3.445	3.261	3.201	E7	5.31
13)MADieldrin	3.179	3.384	3.524	3.690	3.638	3.658	3.276	3.478	E7	5.80
14)MAEndrin	3.115	3.231	3.307	3.393	3.383	3.366	3.186	3.283	E7	3.29
15)A 4,4'-DDD	2.390	2.557	2.643	2.775	2.794	2.886	2.907	2.707	E7	6.93
16)B Endosulfan II	2.923	3.104	3.256	3.351	3.311	3.293	3.064	3.186	E7	4.96
17)MA4,4'-DDT	1.552	1.721	1.938	2.221	2.371	2.575	1.811	2.027	E7	18.35
18)B Endrin Aldehyde	2.213	2.228	2.295	2.387	2.357	2.428	2.365	2.325	E7	3.51
19)B Endosulfan Sulfat	2.265	2.328	2.402	2.484	2.481	2.536	2.516	2.430	E7	4.20
20)A Methoxychlor	0.942	1.072	1.145	1.228	1.251	1.293	1.110	1.149	E7	10.53
21) Mirex	2.558	2.620	2.579	2.563	2.484	2.507	2.942	2.608	E7	5.91
22)B Endrin Ketone	2.269	2.388	2.555	2.713	2.672	2.784	2.330	2.530	E7	8.01
23)L8Toxaphene{A}					8.012			8.012	E5	0.00
24)L8Toxaphene{B}					9.696			9.696	E5	0.00
25)L8Toxaphene{C}					1.834			1.834	E6	0.00
26)L8Toxaphene{D}					9.571			9.571	E5	0.00
27)L8Toxaphene{E}					7.819			7.819	E5	0.00
28) Chlordane {A}					2.120			2.120	E6	0.00
29) Chlordane {B}					1.234			1.234	E6	0.00
30) Chlordane {C}					4.630			4.630	E6	0.00
31) Chlordane {D}					8.350			8.350	E6	0.00
32) Chlordane {E}					1.080			1.080	E6	0.00
33)SADecachlorobipheny	2.010	2.071	2.068	2.039	1.959	2.003		2.025	E7	2.11

(#) = Out of Range

1PST2750.M Tue Aug 28 08:49:52 2012 RPT1

8.7.1

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2750-ICV2750
Lab FileID: 1G82801.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2750\1G82801.D\ECD1A.CH  Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G2750\1G82801.D\ECD2B.CH
Acq On    : 8-27-12 07:56:05 PM                        Operator: douglass
Sample    : ICV2750-25                                 Inst    : GC1G
Misc      : OP59337,G1G2750,1000,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue Aug 28 08:49:11 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	37.463 E6	3.8	97	0.00	2.40- 2.46
2	A	alpha-BHC	57.931	65.814 E6	-13.6	110	0.00	3.01- 3.07
3	MA	gamma-BHC	53.387	59.916 E6	-12.2	111	0.00	3.39- 3.45
4	MA	Heptachlor	48.172	52.875 E6	-9.8	108	0.00	3.98- 4.04
5	B	beta-BHC	23.199	25.413 E6	-9.5	112	0.00	3.48- 3.54
6	B	delta-BHC	49.306	53.655 E6	-8.8	109	0.00	3.71- 3.77
7	MB	Aldrin	50.351	57.305 E6	-13.8	111	0.00	4.38- 4.44
8	B	Heptachlor Epoxide	47.303	51.544 E6	-9.0	109	0.00	5.23- 5.29
9	B	gamma-Chlordane	52.309	52.868 E6	-1.1	106	0.00	5.41- 5.47
10	B	alpha-Chlordane	49.480	50.625 E6	-2.3	105	0.00	5.61- 5.67
11	A	Endosulfan I	45.204	50.343 E6	-11.4	111	0.00	5.83- 5.89
12	B	4,4'-DDE	43.694	47.296 E6	-8.2	108	0.00	5.71- 5.77
13	MA	Dieldrin	47.355	53.248 E6	-12.4	111	0.00	6.19- 6.25
14	MA	Endrin	44.384	45.861 E6	-3.3	104	0.00	6.57- 6.63
15	A	4,4'-DDD	39.147	42.837 E6	-9.4	108	0.00	6.66- 6.72
16	B	Endosulfan II	41.243	45.140 E6	-9.4	110	0.00	6.93- 6.99
17	MA	4,4'-DDT	30.184	33.497 E6	-11.0	107	0.00	7.11- 7.17
18	B	Endrin Aldehyde	29.903	32.145 E6	-7.5	104	0.00	7.63- 7.69
19	B	Endosulfan Sulfate	31.021	33.244 E6	-7.2	107	0.00	8.37- 8.43
20	A	Methoxychlor	14.852	16.075 E6	-8.2	103	0.00	7.93- 7.99
21		Mirex		----------NA----------				
22	B	Endrin Ketone	33.243	34.395 E6	-3.5	101	0.00	8.87- 8.93
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	26.997 E6	6.1	95	0.00	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	28.101 E6	2.1	96	0.00	1.93- 1.99
2	A	alpha-BHC	43.199	50.362 E6	-16.6	111	0.00	2.52- 2.58
3	MA	gamma-BHC	39.313	45.552 E6	-15.9	111	0.00	2.90- 2.96
4	MA	Heptachlor	38.222	42.223 E6	-10.5	108	0.00	3.42- 3.48
5	B	beta-BHC	17.731	19.318 E6	-9.0	109	0.00	2.99- 3.05

Initial Calibration Verification

Job Number: JB15113 **Sample:** G1G2750-ICV2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G82801.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	39.027 E6	-14.4	108	0.00	3.33- 3.39
7	MB	Aldrin	36.943	43.454 E6	-17.6	112	0.00	3.82- 3.88
8	B	Heptachlor Epoxide	34.708	39.578 E6	-14.0	111	0.00	4.57- 4.63
9	B	gamma-Chlordane	35.131	40.225 E6	-14.5	111	0.00	4.84- 4.90
10	B	alpha-Chlordane	34.906	38.600 E6	-10.6	108	0.00	5.05- 5.11
11	A	Endosulfan I	32.409	36.607 E6	-13.0	110	0.00	5.13- 5.19
12	B	4,4'-DDE	32.012	36.121 E6	-12.8	110	0.00	5.31- 5.37
13	MA	Dieldrin	34.782	40.213 E6	-15.6	109	0.00	5.54- 5.60
14	MA	Endrin	32.829	35.281 E6	-7.5	104	0.00	6.00- 6.06
15	A	4,4'-DDD	27.074	30.161 E6	-11.4	109	0.00	6.21- 6.27
16	B	Endosulfan II	31.860	36.255 E6	-13.8	108	0.00	6.34- 6.40
17	MA	4,4'-DDT	20.269	24.344 E6	-20.1#	110	0.00	6.72- 6.78
18	B	Endrin Aldehyde	23.246	24.754 E6	-6.5	104	0.00	6.89- 6.95
19	B	Endosulfan Sulfate	24.300	26.820 E6	-10.4	108	0.00	7.35- 7.41
20	A	Methoxychlor	11.487	13.123 E6	-14.2	107	0.00	7.91- 7.97
21		Mirex		----------NA----------				
22	B	Endrin Ketone	25.302	26.842 E6	-6.1	99	0.00	8.25- 8.31
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	19.585 E6	3.3	96	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82796.D 1PST2750.M Tue Aug 28 08:50:31 2012 RPT1

8.7.2

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G1G2750-ICV2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G82802.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2750\1G82802.D\ECD1A.CH  Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G2750\1G82802.D\ECD2B.CH
Acq On    : 8-27-12 08:11:23 PM                       Operator: douglass
Sample    : ICV2750-500                               Inst    : GC1G
Misc      : OP59337,G1G2750,1000,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue Aug 28 08:47:00 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene		----------NA----------				
2	A	alpha-BHC		----------NA----------				
3	MA	gamma-BHC		----------NA----------				
4	MA	Heptachlor		----------NA----------				
5	B	beta-BHC		----------NA----------				
6	B	delta-BHC		----------NA----------				
7	MB	Aldrin		----------NA----------				
8	B	Heptachlor Epoxide		----------NA----------				
9	B	gamma-Chlordane		----------NA----------				
10	B	alpha-Chlordane		----------NA----------				
11	A	Endosulfan I		----------NA----------				
12	B	4,4'-DDE		----------NA----------				
13	MA	Dieldrin		----------NA----------				
14	MA	Endrin		----------NA----------				
15	A	4,4'-DDD		----------NA----------				
16	B	Endosulfan II		----------NA----------				
17	MA	4,4'-DDT		----------NA----------				
18	B	Endrin Aldehyde		----------NA----------				
19	B	Endosulfan Sulfate		----------NA----------				
20	A	Methoxychlor		----------NA----------				
21		Mirex		----------NA----------				
22	B	Endrin Ketone		----------NA----------				
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}	2.606	2.758 E6	-5.8	106	0.00	3.91- 4.11
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}	6.545	6.936 E6	-6.0	106	0.00	5.34- 5.54
31		Chlordane {D}	10.784	11.435 E6	-6.0	106	0.00	5.51- 5.71
32		Chlordane {E}	1.435	1.717 E6	-19.7	120	0.00	6.75- 6.95
33	SA	Decachlorobiphenyl		----------NA----------				

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene		----------NA----------				
2	A	alpha-BHC		----------NA----------				
3	MA	gamma-BHC		----------NA----------				
4	MA	Heptachlor		----------NA----------				
5	B	beta-BHC		----------NA----------				

8.7.3

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2750-ICV2750
Lab FileID: 1G82802.D

6	B	delta-BHC		----------NA----------					
7	MB	Aldrin		----------NA----------					
8	B	Heptachlor Epoxide		----------NA----------					
9	B	gamma-Chlordane		----------NA----------					
10	B	alpha-Chlordane		----------NA----------					
11	A	Endosulfan I		----------NA----------					
12	B	4,4'-DDE		----------NA----------					
13	MA	Dieldrin		----------NA----------					
14	MA	Endrin		----------NA----------					
15	A	4,4'-DDD		----------NA----------					
16	B	Endosulfan II		----------NA----------					
17	MA	4,4'-DDT		----------NA----------					
18	B	Endrin Aldehyde		----------NA----------					
19	B	Endosulfan Sulfate		----------NA----------					
20	A	Methoxychlor		----------NA----------					
21		Mirex		----------NA----------					
22	B	Endrin Ketone		----------NA----------					
23	L8	Toxaphene{A}		----------NA----------					
24	L8	Toxaphene{B}		----------NA----------					
25	L8	Toxaphene{C}		----------NA----------					
26	L8	Toxaphene{D}		----------NA----------					
27	L8	Toxaphene{E}		----------NA----------					
28		Chlordane {A}	2.120	2.386 E6	-12.5	113	0.00	3.35- 3.55	
29		Chlordane {B}		----------NA----------					
30		Chlordane {C}	4.630	4.720 E6	-1.9	102	0.00	4.77- 4.97	
31		Chlordane {D}	8.350	8.458 E6	-1.3	101	0.00	4.91- 5.11	
32		Chlordane {E}	1.080	1.072 E6	0.7	99	0.00	6.34- 6.54	
33	SA	Decachlorobiphenyl		----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82797.D 1PST2750.M Tue Aug 28 08:48:37 2012 RPT1

Initial Calibration Verification

Job Number: JB15113 **Sample:** G1G2750-ICV2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G82803.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2750\1G82803.D\ECD1A.CH  Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G2750\1G82803.D\ECD2B.CH
Acq On    : 8-27-12 08:26:50 PM                       Operator: douglass
Sample    : ICV2750-500                               Inst    : GC1G
Misc      : OP59337,G1G2750,1000,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue Aug 28 08:47:00 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene		----------NA----------				
2	A	alpha-BHC		----------NA----------				
3	MA	gamma-BHC		----------NA----------				
4	MA	Heptachlor		----------NA----------				
5	B	beta-BHC		----------NA----------				
6	B	delta-BHC		----------NA----------				
7	MB	Aldrin		----------NA----------				
8	B	Heptachlor Epoxide		----------NA----------				
9	B	gamma-Chlordane		----------NA----------				
10	B	alpha-Chlordane		----------NA----------				
11	A	Endosulfan I		----------NA----------				
12	B	4,4'-DDE		----------NA----------				
13	MA	Dieldrin		----------NA----------				
14	MA	Endrin		----------NA----------				
15	A	4,4'-DDD		----------NA----------				
16	B	Endosulfan II		----------NA----------				
17	MA	4,4'-DDT		----------NA----------				
18	B	Endrin Aldehyde		----------NA----------				
19	B	Endosulfan Sulfate		----------NA----------				
20	A	Methoxychlor		----------NA----------				
21		Mirex		----------NA----------				
22	B	Endrin Ketone		----------NA----------				
23	L8	Toxaphene{A}	817.894	764.923 E3	6.5	94	0.00	6.13- 6.33
24	L8	Toxaphene{B}	1.391	1.276 E6	8.3	92	0.00	6.37- 6.57
25	L8	Toxaphene{C}	2.090	1.989 E6	4.8	95	-0.03	6.85- 7.05
26	L8	Toxaphene{D}	1.333	1.384 E6	-3.8	104	0.03	7.41- 7.61
27	L8	Toxaphene{E}	1.266	1.265 E6	0.1	100	0.00	8.14- 8.34
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl		----------NA----------				

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	----------NA----------	
2	A	alpha-BHC	----------NA----------	
3	MA	gamma-BHC	----------NA----------	
4	MA	Heptachlor	----------NA----------	
5	B	beta-BHC	----------NA----------	

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G1G2750-ICV2750
Lab FileID: 1G82803.D

6	B	delta-BHC	----------NA----------						
7	MB	Aldrin	----------NA----------						
8	B	Heptachlor Epoxide	----------NA----------						
9	B	gamma-Chlordane	----------NA----------						
10	B	alpha-Chlordane	----------NA----------						
11	A	Endosulfan I	----------NA----------						
12	B	4,4'-DDE	----------NA----------						
13	MA	Dieldrin	----------NA----------						
14	MA	Endrin	----------NA----------						
15	A	4,4'-DDD	----------NA----------						
16	B	Endosulfan II	----------NA----------						
17	MA	4,4'-DDT	----------NA----------						
18	B	Endrin Aldehyde	----------NA----------						
19	B	Endosulfan Sulfate	----------NA----------						
20	A	Methoxychlor	----------NA----------						
21		Mirex	----------NA----------						
22	B	Endrin Ketone	----------NA----------						
23	L8	Toxaphene{A}	801.180	757.762	E3	5.4	95	-0.03	5.44- 5.64
24	L8	Toxaphene{B}	969.579	948.131	E3	2.2	98	-0.02	6.25- 6.45
25	L8	Toxaphene{C}	1.834	1.821	E6	0.7	99	0.00	6.41- 6.61
26	L8	Toxaphene{D}	957.056	984.595	E3	-2.9	103	0.02	6.84- 7.04
27	L8	Toxaphene{E}	781.877	734.247	E3	6.1	94	0.00	7.69- 7.89
28		Chlordane {A}	----------NA----------						
29		Chlordane {B}	----------NA----------						
30		Chlordane {C}	----------NA----------						
31		Chlordane {D}	----------NA----------						
32		Chlordane {E}	----------NA----------						
33	SA	Decachlorobiphenyl	----------NA----------						

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82797.D 1PST2750.M Tue Aug 28 08:48:38 2012 RPT1

8.7.4

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2756-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83083.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2756\1G83083.D\ECD1A.CH  Vial: 22
Signal #2 : C:\MSDCHEM\1\DATA\1G2756\1G83083.D\ECD2B.CH
Acq On    : 9-4-12 04:00:31 PM                        Operator: douglass
Sample    : cc2750-25                                 Inst    : GC1G
Misc      : OP59467,G1G2756,15.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 14:31:34 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	44.630 E6	-14.6	116	0.00	2.44- 2.50
2	A	alpha-BHC	57.931	68.160 E6	-17.7	114	0.00	3.04- 3.10
3	MA	gamma-BHC	53.387	62.216 E6	-16.5	115	0.00	3.41- 3.47
4	MA	Heptachlor	48.172	53.382 E6	-10.8	109	0.00	3.99- 4.05
5	B	beta-BHC	23.199	28.231 E6	-21.7#	124	0.00	3.50- 3.56
6	B	delta-BHC	49.306	58.356 E6	-18.4	118	0.00	3.73- 3.79
7	MB	Aldrin	50.351	58.738 E6	-16.7	114	0.00	4.40- 4.46
8	B	Heptachlor Epoxide	47.303	52.347 E6	-10.7	111	0.00	5.24- 5.30
9	B	gamma-Chlordane	52.309	54.008 E6	-3.2	109	0.00	5.42- 5.48
10	B	alpha-Chlordane	49.480	52.848 E6	-6.8	110	0.00	5.62- 5.68
11	A	Endosulfan I	45.204	51.253 E6	-13.4	113	0.00	5.83- 5.89
12	B	4,4'-DDE	43.694	46.273 E6	-5.9	106	0.00	5.72- 5.78
13	MA	Dieldrin	47.355	53.232 E6	-12.4	111	0.00	6.20- 6.26
14	MA	Endrin	44.384	46.535 E6	-4.8	106	0.00	6.57- 6.63
15	A	4,4'-DDD	39.147	41.393 E6	-5.7	105	0.00	6.67- 6.73
16	B	Endosulfan II	41.243	45.445 E6	-10.2	111	0.00	6.93- 6.99
17	MA	4,4'-DDT	30.184	33.854 E6	-12.2	108	0.00	7.12- 7.18
18	B	Endrin Aldehyde	29.903	34.800 E6	-16.4	113	0.00	7.63- 7.69
19	B	Endosulfan Sulfate	31.021	34.623 E6	-11.6	111	0.00	8.37- 8.43
20	A	Methoxychlor	14.852	14.221 E6	4.2	91	0.00	7.93- 7.99
21		Mirex	35.752	36.638 E6	-2.5	105	0.00	8.18- 8.24
22	B	Endrin Ketone	33.243	37.440 E6	-12.6	110	0.00	8.87- 8.93
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	29.964 E6	-4.2	106	0.00	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	31.013 E6	-8.0	106	0.00	1.97- 2.03
2	A	alpha-BHC	43.199	47.807 E6	-10.7	105	0.00	2.55- 2.61
3	MA	gamma-BHC	39.313	42.781 E6	-8.8	104	0.00	2.93- 2.99
4	MA	Heptachlor	38.222	41.076 E6	-7.5	105	0.00	3.44- 3.50
5	B	beta-BHC	17.731	18.496 E6	-4.3	105	0.00	3.01- 3.07

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2756-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83083.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	37.743 E6	-10.6	105	0.00	3.35- 3.41
7	MB	Aldrin	36.943	40.656 E6	-10.1	105	0.00	3.84- 3.90
8	B	Heptachlor Epoxide	34.708	37.219 E6	-7.2	105	0.00	4.58- 4.64
9	B	gamma-Chlordane	35.131	37.592 E6	-7.0	104	0.00	4.85- 4.91
10	B	alpha-Chlordane	34.906	36.841 E6	-5.5	103	0.00	5.06- 5.12
11	A	Endosulfan I	32.409	34.267 E6	-5.7	103	0.00	5.14- 5.20
12	B	4,4'-DDE	32.012	31.538 E6	1.5	96	0.00	5.31- 5.37
13	MA	Dieldrin	34.782	36.235 E6	-4.2	98	0.00	5.54- 5.60
14	MA	Endrin	32.829	34.415 E6	-4.8	101	0.00	6.01- 6.07
15	A	4,4'-DDD	27.074	27.666 E6	-2.2	100	0.00	6.22- 6.28
16	B	Endosulfan II	31.860	34.622 E6	-8.7	103	0.00	6.34- 6.40
17	MA	4,4'-DDT	20.269	20.788 E6	-2.6	94	0.00	6.72- 6.78
18	B	Endrin Aldehyde	23.246	24.721 E6	-6.3	104	0.00	6.89- 6.95
19	B	Endosulfan Sulfate	24.300	25.637 E6	-5.5	103	0.00	7.35- 7.41
20	A	Methoxychlor	11.487	12.446 E6	-8.3	101	0.00	7.91- 7.97
21		Mirex	26.077	26.149 E6	-0.3	102	0.00	8.17- 8.23
22	B	Endrin Ketone	25.302	29.064 E6	-14.9	107	0.00	8.25- 8.31
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	20.675 E6	-2.1	101	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G83062.D 1PST2750.M Tue Sep 04 16:25:02 2012 RPT1

8.7.5

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2756-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83094.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2756\1G83094.D\ECD1A.CH  Vial: 31
Signal #2 : C:\MSDCHEM\1\DATA\1G2756\1G83094.D\ECD2B.CH
Acq On    : 9-4-12 09:54:34 PM                        Operator: douglass
Sample    : CC2750-50                                 Inst    : GC1G
Misc      : OP59467,G1G2756,15.3,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Sep 05 09:02:38 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	44.372 E6	-13.9	117	0.06	2.45- 2.51
2	A	alpha-BHC	57.931	70.256 E6	-21.3#	115	0.05	3.05- 3.11
3	MA	gamma-BHC	53.387	63.355 E6	-18.7	115	0.04	3.41- 3.47
4	MA	Heptachlor	48.172	54.048 E6	-12.2	110	0.04	4.00- 4.06
5	B	beta-BHC	23.199	26.821 E6	-15.6	119	0.04	3.51- 3.57
6	B	delta-BHC	49.306	58.281 E6	-18.2	115	0.04	3.73- 3.79
7	MB	Aldrin	50.351	60.740 E6	-20.6#	117	0.04	4.40- 4.46
8	B	Heptachlor Epoxide	47.303	53.825 E6	-13.8	115	0.03	5.24- 5.30
9	B	gamma-Chlordane	52.309	56.822 E6	-8.6	115	0.03	5.42- 5.48
10	B	alpha-Chlordane	49.480	55.316 E6	-11.8	115	0.03	5.62- 5.68
11	A	Endosulfan I	45.204	53.166 E6	-17.6	116	0.03	5.84- 5.90
12	B	4,4'-DDE	43.694	48.845 E6	-11.8	110	0.03	5.72- 5.78
13	MA	Dieldrin	47.355	55.695 E6	-17.6	116	0.03	6.20- 6.26
14	MA	Endrin	44.384	47.440 E6	-6.9	108	0.02	6.57- 6.63
15	A	4,4'-DDD	39.147	43.968 E6	-12.3	112	0.02	6.67- 6.73
16	B	Endosulfan II	41.243	47.672 E6	-15.6	117	0.02	6.94- 7.00
17	MA	4,4'-DDT	30.184	33.942 E6	-12.5	105	0.02	7.12- 7.18
18	B	Endrin Aldehyde	29.903	37.565 E6	-25.6#	124	0.02	7.63- 7.69
19	B	Endosulfan Sulfate	31.021	34.916 E6	-12.6	112	0.02	8.38- 8.44
20	A	Methoxychlor	14.852	17.458 E6	-17.5	108	0.02	7.94- 8.00
21		Mirex	35.752	38.677 E6	-8.2	115	0.02	8.18- 8.24
22	B	Endrin Ketone	33.243	24.449 E6	26.5#	73	0.02	8.87- 8.93
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	31.921 E6	-11.0	118	0.01	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	29.954 E6	-4.3	104	0.05	1.98- 2.04
2	A	alpha-BHC	43.199	49.425 E6	-14.4	107	0.04	2.55- 2.61
3	MA	gamma-BHC	39.313	44.611 E6	-13.5	107	0.03	2.93- 2.99
4	MA	Heptachlor	38.222	41.655 E6	-9.0	107	0.03	3.44- 3.50
5	B	beta-BHC	17.731	19.381 E6	-9.3	111	0.03	3.01- 3.07

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2756-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83094.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	38.720 E6	-13.5	104	0.03	3.35- 3.41
7	MB	Aldrin	36.943	42.516 E6	-15.1	109	0.03	3.84- 3.90
8	B	Heptachlor Epoxide	34.708	38.225 E6	-10.1	108	0.02	4.58- 4.64
9	B	gamma-Chlordane	35.131	39.678 E6	-12.9	108	0.02	4.85- 4.91
10	B	alpha-Chlordane	34.906	38.727 E6	-10.9	108	0.02	5.06- 5.12
11	A	Endosulfan I	32.409	35.659 E6	-10.0	108	0.02	5.14- 5.20
12	B	4,4'-DDE	32.012	34.116 E6	-6.6	103	0.02	5.32- 5.38
13	MA	Dieldrin	34.782	38.195 E6	-9.8	105	0.02	5.54- 5.60
14	MA	Endrin	32.829	35.491 E6	-8.1	105	0.02	6.01- 6.07
15	A	4,4'-DDD	27.074	30.162 E6	-11.4	108	0.02	6.22- 6.28
16	B	Endosulfan II	31.860	38.990 E6	-22.4#	118	0.02	6.34- 6.40
17	MA	4,4'-DDT	20.269	18.593 E6	8.3	78	0.01	6.72- 6.78
18	B	Endrin Aldehyde	23.246	22.522 E6	3.1	96	0.01	6.89- 6.95
19	B	Endosulfan Sulfate	24.300	25.983 E6	-6.9	105	0.01	7.35- 7.41
20	A	Methoxychlor	11.487	13.957 E6	-21.5#	112	0.01	7.91- 7.97
21		Mirex	26.077	27.386 E6	-5.0	110	0.01	8.17- 8.23
22	B	Endrin Ketone	25.302	30.763 E6	-21.6#	115	0.01	8.25- 8.31
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	22.290 E6	-10.1	114	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82797.D 1PST2750.M Wed Sep 05 14:27:37 2012 RPT1

8.7.6

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2757-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83096.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2757\1G83096.D\ECD1A.CH  Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G2757\1G83096.D\ECD2B.CH
Acq On    : 9-5-12 08:45:17 AM                        Operator: douglass
Sample    : CC2750-25                                 Inst    : GC1G
Misc      : OP59467,G1G2757,15.3,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Sep 05 16:45:00 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	39.980 E6	-2.6	104	-0.02	2.39- 2.45
2	A	alpha-BHC	57.931	63.839 E6	-10.2	107	-0.02	3.00- 3.06
3	MA	gamma-BHC	53.387	57.806 E6	-8.3	107	-0.02	3.37- 3.43
4	MA	Heptachlor	48.172	49.518 E6	-2.8	102	-0.02	3.96- 4.02
5	B	beta-BHC	23.199	23.771 E6	-2.5	105	-0.02	3.46- 3.52
6	B	delta-BHC	49.306	54.606 E6	-10.7	111	-0.02	3.69- 3.75
7	MB	Aldrin	50.351	53.302 E6	-5.9	104	-0.02	4.37- 4.43
8	B	Heptachlor Epoxide	47.303	49.674 E6	-5.0	105	-0.02	5.21- 5.27
9	B	gamma-Chlordane	52.309	47.889 E6	8.4	96	-0.02	5.39- 5.45
10	B	alpha-Chlordane	49.480	48.668 E6	1.6	101	-0.02	5.59- 5.65
11	A	Endosulfan I	45.204	47.106 E6	-4.2	104	-0.02	5.81- 5.87
12	B	4,4'-DDE	43.694	44.948 E6	-2.9	103	-0.02	5.69- 5.75
13	MA	Dieldrin	47.355	50.204 E6	-6.0	104	-0.02	6.18- 6.24
14	MA	Endrin	44.384	47.174 E6	-6.3	107	-0.02	6.55- 6.61
15	A	4,4'-DDD	39.147	40.545 E6	-3.6	102	-0.02	6.65- 6.71
16	B	Endosulfan II	41.243	43.753 E6	-6.1	106	-0.02	6.91- 6.97
17	MA	4,4'-DDT	30.184	34.550 E6	-14.5	110	-0.02	7.10- 7.16
18	B	Endrin Aldehyde	29.903	33.039 E6	-10.5	107	-0.02	7.61- 7.67
19	B	Endosulfan Sulfate	31.021	37.781 E6	-21.8#	122	-0.01	8.36- 8.42
20	A	Methoxychlor	14.852	16.225 E6	-9.2	104	-0.02	7.92- 7.98
21		Mirex	35.752	36.785 E6	-2.9	105	-0.02	8.16- 8.22
22	B	Endrin Ketone	33.243	42.789 E6	-28.7#	126	-0.02	8.85- 8.91
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	31.650 E6	-10.1	112	-0.01	10.37-10.43

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	27.476 E6	4.3	94	0.00	1.92- 1.98
2	A	alpha-BHC	43.199	43.556 E6	-0.8	96	0.00	2.51- 2.57
3	MA	gamma-BHC	39.313	39.100 E6	0.5	95	0.00	2.89- 2.95
4	MA	Heptachlor	38.222	36.682 E6	4.0	94	0.00	3.41- 3.47
5	B	beta-BHC	17.731	16.513 E6	6.9	93	0.00	2.98- 3.04

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2757-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83096.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	34.276 E6	-0.5	95	0.00	3.32- 3.38
7	MB	Aldrin	36.943	35.926 E6	2.8	92	-0.01	3.81- 3.87
8	B	Heptachlor Epoxide	34.708	32.297 E6	6.9	91	0.00	4.56- 4.62
9	B	gamma-Chlordane	35.131	33.161 E6	5.6	92	0.00	4.83- 4.89
10	B	alpha-Chlordane	34.906	32.953 E6	5.6	92	0.00	5.04- 5.10
11	A	Endosulfan I	32.409	30.873 E6	4.7	93	0.00	5.12- 5.18
12	B	4,4'-DDE	32.012	30.285 E6	5.4	93	-0.01	5.30- 5.36
13	MA	Dieldrin	34.782	34.140 E6	1.8	93	0.00	5.53- 5.59
14	MA	Endrin	32.829	32.785 E6	0.1	97	0.00	5.99- 6.05
15	A	4,4'-DDD	27.074	25.931 E6	4.2	93	0.00	6.20- 6.26
16	B	Endosulfan II	31.860	31.146 E6	2.2	93	0.00	6.33- 6.39
17	MA	4,4'-DDT	20.269	22.183 E6	-9.4	100	0.00	6.70- 6.76
18	B	Endrin Aldehyde	23.246	23.559 E6	-1.3	99	0.00	6.88- 6.94
19	B	Endosulfan Sulfate	24.300	26.421 E6	-8.7	106	0.00	7.34- 7.40
20	A	Methoxychlor	11.487	12.252 E6	-6.7	100	0.00	7.90- 7.96
21		Mirex	26.077	24.527 E6	5.9	96	0.00	8.15- 8.21
22	B	Endrin Ketone	25.302	29.696 E6	-17.4	109	0.00	8.24- 8.30
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	20.605 E6	-1.8	101	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G83116.D 1PST2750.M Wed Sep 05 16:53:00 2012 RPT1

8.7.7

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2757-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83107.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2757\1G83107.D\ECD1A.CH  Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G2757\1G83107.D\ECD2B.CH
Acq On    : 9-5-12 01:12:11 PM                        Operator: douglass
Sample    : CC2750-50                                 Inst    : GC1G
Misc      : OP59484,G1G2757,15.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Sep 05 16:45:00 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	39.256 E6	-0.8	103	0.00	2.42- 2.48
2	A	alpha-BHC	57.931	64.184 E6	-10.8	105	0.00	3.02- 3.08
3	MA	gamma-BHC	53.387	57.292 E6	-7.3	104	0.00	3.40- 3.46
4	MA	Heptachlor	48.172	49.884 E6	-3.6	101	0.00	3.99- 4.05
5	B	beta-BHC	23.199	22.584 E6	2.7	100	0.00	3.49- 3.55
6	B	delta-BHC	49.306	51.820 E6	-5.1	102	0.00	3.72- 3.78
7	MB	Aldrin	50.351	52.011 E6	-3.3	100	0.00	4.39- 4.45
8	B	Heptachlor Epoxide	47.303	44.377 E6	6.2	95	0.00	5.24- 5.30
9	B	gamma-Chlordane	52.309	44.264 E6	15.4	90	0.00	5.42- 5.48
10	B	alpha-Chlordane	49.480	45.117 E6	8.8	94	0.01	5.62- 5.68
11	A	Endosulfan I	45.204	43.073 E6	4.7	94	0.00	5.84- 5.90
12	B	4,4'-DDE	43.694	42.704 E6	2.3	96	0.00	5.72- 5.78
13	MA	Dieldrin	47.355	46.480 E6	1.8	97	0.01	6.20- 6.26
14	MA	Endrin	44.384	43.040 E6	3.0	98	0.00	6.58- 6.64
15	A	4,4'-DDD	39.147	37.502 E6	4.2	96	0.00	6.67- 6.73
16	B	Endosulfan II	41.243	38.798 E6	5.9	95	0.00	6.94- 7.00
17	MA	4,4'-DDT	30.184	30.825 E6	-2.1	95	0.00	7.12- 7.18
18	B	Endrin Aldehyde	29.903	28.268 E6	5.5	93	0.00	7.63- 7.69
19	B	Endosulfan Sulfate	31.021	27.085 E6	12.7	87	0.00	8.38- 8.44
20	A	Methoxychlor	14.852	15.591 E6	-5.0	97	0.00	7.94- 8.00
21		Mirex	35.752	27.808 E6	22.2#	83	0.00	8.19- 8.25
22	B	Endrin Ketone	33.243	30.461 E6	8.4	91	0.00	8.87- 8.93
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	24.900 E6	13.4	92	0.00	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	28.199 E6	1.8	97	0.00	1.93- 1.99
2	A	alpha-BHC	43.199	45.882 E6	-6.2	99	0.00	2.52- 2.58
3	MA	gamma-BHC	39.313	39.623 E6	-0.8	95	0.00	2.91- 2.97
4	MA	Heptachlor	38.222	38.297 E6	-0.2	98	0.00	3.42- 3.48
5	B	beta-BHC	17.731	16.472 E6	7.1	95	0.00	2.99- 3.05

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2757-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83107.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	36.501 E6	-7.0	98	0.00	3.34- 3.40
7	MB	Aldrin	36.943	36.429 E6	1.4	93	0.00	3.82- 3.88
8	B	Heptachlor Epoxide	34.708	32.197 E6	7.2	91	0.00	4.58- 4.64
9	B	gamma-Chlordane	35.131	33.289 E6	5.2	91	0.00	4.84- 4.90
10	B	alpha-Chlordane	34.906	32.731 E6	6.2	91	0.00	5.05- 5.11
11	A	Endosulfan I	32.409	30.411 E6	6.2	92	0.00	5.13- 5.19
12	B	4,4'-DDE	32.012	30.538 E6	4.6	92	0.00	5.31- 5.37
13	MA	Dieldrin	34.782	32.679 E6	6.0	90	0.00	5.54- 5.60
14	MA	Endrin	32.829	31.910 E6	2.8	94	0.00	6.00- 6.06
15	A	4,4'-DDD	27.074	26.398 E6	2.5	94	0.00	6.21- 6.27
16	B	Endosulfan II	31.860	29.629 E6	7.0	89	0.00	6.34- 6.40
17	MA	4,4'-DDT	20.269	20.497 E6	-1.1	86	0.00	6.71- 6.77
18	B	Endrin Aldehyde	23.246	21.417 E6	7.9	91	0.00	6.89- 6.95
19	B	Endosulfan Sulfate	24.300	22.042 E6	9.3	89	0.00	7.35- 7.41
20	A	Methoxychlor	11.487	9.811 E6	14.6	78	0.00	7.90- 7.96
21		Mirex	26.077	20.440 E6	21.6#	82	0.00	8.17- 8.23
22	B	Endrin Ketone	25.302	25.352 E6	-0.2	95	0.00	8.25- 8.31
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	16.538 E6	18.3	84	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82797.D 1PST2750.M Wed Sep 05 16:53:18 2012 RPT1

8.7.8

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83256.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2760\1G83256.D\ECD1A.CH  Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G2760\1G83256.D\ECD2B.CH
Acq On    : 10 Sep 2012  12:48 pm                    Operator: douglass
Sample    : CC2750-10                                Inst    : GC1G
Misc      : OP59613,G1G2760,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Sep 06 16:20:39 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	43.212 E6	-10.9	110	0.00	2.41- 2.47
2	A	alpha-BHC	57.931	59.199 E6	-2.2	103	0.00	3.02- 3.08
3	MA	gamma-BHC	53.387	54.185 E6	-1.5	103	0.00	3.39- 3.45
4	MA	Heptachlor	48.172	51.354 E6	-6.6	107	0.00	3.98- 4.04
5	B	beta-BHC	23.199	24.475 E6	-5.5	110	0.00	3.49- 3.55
6	B	delta-BHC	49.306	41.151 E6	16.5	87	0.00	3.72- 3.78
7	MB	Aldrin	50.351	52.548 E6	-4.4	105	0.00	4.39- 4.45
8	B	Heptachlor Epoxide	47.303	48.228 E6	-2.0	102	0.00	5.23- 5.29
9	B	gamma-Chlordane	52.309	47.224 E6	9.7	89	0.00	5.42- 5.48
10	B	alpha-Chlordane	49.480	51.491 E6	-4.1	104	0.00	5.61- 5.67
11	A	Endosulfan I	45.204	47.454 E6	-5.0	105	0.00	5.83- 5.89
12	B	4,4'-DDE	43.694	51.278 E6	-17.4	119	0.00	5.72- 5.78
13	MA	Dieldrin	47.355	50.677 E6	-7.0	110	0.00	6.20- 6.26
14	MA	Endrin	44.384	47.434 E6	-6.9	109	0.00	6.57- 6.63
15	A	4,4'-DDD	39.147	37.890 E6	3.2	100	0.00	6.67- 6.73
16	B	Endosulfan II	41.243	41.176 E6	0.2	102	0.00	6.93- 6.99
17	MA	4,4'-DDT	30.184	30.179 E6	0.0	109	0.00	7.12- 7.18
18	B	Endrin Aldehyde	29.903	32.695 E6	-9.3	108	0.00	7.63- 7.69
19	B	Endosulfan Sulfate	31.021	30.312 E6	2.3	103	0.00	8.38- 8.44
20	A	Methoxychlor	14.852	17.061 E6	-14.9	122	0.00	7.94- 8.00
21		Mirex	35.752	35.593 E6	0.4	103	0.00	8.18- 8.24
22	B	Endrin Ketone	33.243	36.434 E6	-9.6	112	0.00	8.87- 8.93
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	29.474 E6	-2.5	104	0.00	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	25.340 E6	11.7	89	0.00	1.93- 1.99
2	A	alpha-BHC	43.199	36.018 E6	16.6	85	0.00	2.52- 2.58
3	MA	gamma-BHC	39.313	32.514 E6	17.3	83	0.00	2.90- 2.96
4	MA	Heptachlor	38.222	33.958 E6	11.2	89	0.00	3.42- 3.48
5	B	beta-BHC	17.731	14.431 E6	18.6	82	0.00	2.99- 3.05

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83256.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	23.178 E6	32.1#	70	0.00	3.33- 3.39
7	MB	Aldrin	36.943	32.028 E6	13.3	86	0.00	3.82- 3.88
8	B	Heptachlor Epoxide	34.708	29.132 E6	16.1	83	0.00	4.57- 4.63
9	B	gamma-Chlordane	35.131	30.141 E6	14.2	86	0.00	4.84- 4.90
10	B	alpha-Chlordane	34.906	29.376 E6	15.8	85	0.00	5.05- 5.11
11	A	Endosulfan I	32.409	26.910 E6	17.0	83	0.00	5.13- 5.19
12	B	4,4'-DDE	32.012	26.223 E6	18.1	86	0.00	5.31- 5.37
13	MA	Dieldrin	34.782	28.781 E6	17.3	82	0.00	5.53- 5.59
14	MA	Endrin	32.829	28.430 E6	13.4	86	0.00	6.00- 6.06
15	A	4,4'-DDD	27.074	22.639 E6	16.4	86	0.00	6.21- 6.27
16	B	Endosulfan II	31.860	26.715 E6	16.1	82	0.00	6.34- 6.40
17	MA	4,4'-DDT	20.269	17.413 E6	14.1	90	0.00	6.71- 6.77
18	B	Endrin Aldehyde	23.246	20.667 E6	11.1	90	0.00	6.88- 6.94
19	B	Endosulfan Sulfate	24.300	18.827 E6	22.5#	78	0.00	7.35- 7.41
20	A	Methoxychlor	11.487	9.126 E6	20.6#	80	0.00	7.90- 7.96
21		Mirex	26.077	22.033 E6	15.5	85	0.00	8.16- 8.22
22	B	Endrin Ketone	25.302	22.755 E6	10.1	89	0.00	8.25- 8.31
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	17.645 E6	12.9	85	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82795.D 1PST2750.M Mon Sep 10 14:47:11 2012 RPT1

8.7.9

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83267.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2760\1G83267.D\ECD1A.CH  Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G2760\1G83267.D\ECD2B.CH
Acq On    : 9-10-12 04:13:03 PM                       Operator: douglass
Sample    : CC2750-50                                 Inst    : GC1G
Misc      : OP59589,G1G2760,15.8,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Sep 06 16:20:39 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	42.896 E6	-10.1	113	-0.01	2.39- 2.45
2	A	alpha-BHC	57.931	64.654 E6	-11.6	106	-0.02	3.00- 3.06
3	MA	gamma-BHC	53.387	58.201 E6	-9.0	106	-0.02	3.37- 3.43
4	MA	Heptachlor	48.172	55.320 E6	-14.8	113	-0.02	3.96- 4.02
5	B	beta-BHC	23.199	25.019 E6	-7.8	111	-0.01	3.47- 3.53
6	B	delta-BHC	49.306	46.537 E6	5.6	92	-0.01	3.70- 3.76
7	MB	Aldrin	50.351	57.005 E6	-13.2	110	-0.02	4.37- 4.43
8	B	Heptachlor Epoxide	47.303	51.188 E6	-8.2	109	-0.02	5.21- 5.27
9	B	gamma-Chlordane	52.309	53.157 E6	-1.6	108	-0.02	5.39- 5.45
10	B	alpha-Chlordane	49.480	51.724 E6	-4.5	108	-0.02	5.59- 5.65
11	A	Endosulfan I	45.204	51.063 E6	-13.0	111	-0.02	5.81- 5.87
12	B	4,4'-DDE	43.694	46.463 E6	-6.3	105	-0.01	5.69- 5.75
13	MA	Dieldrin	47.355	51.421 E6	-8.6	107	-0.02	6.18- 6.24
14	MA	Endrin	44.384	47.518 E6	-7.1	109	-0.02	6.55- 6.61
15	A	4,4'-DDD	39.147	44.830 E6	-14.5	114	0.00	6.65- 6.71
16	B	Endosulfan II	41.243	42.441 E6	-2.9	104	-0.01	6.91- 6.97
17	MA	4,4'-DDT	30.184	27.847 E6	7.7	86	-0.01	7.10- 7.16
18	B	Endrin Aldehyde	29.903	32.841 E6	-9.8	108	-0.01	7.61- 7.67
19	B	Endosulfan Sulfate	31.021	30.095 E6	3.0	97	-0.01	8.36- 8.42
20	A	Methoxychlor	14.852	14.524 E6	2.2	90	-0.01	7.92- 7.98
21		Mirex	35.752	34.312 E6	4.0	102	-0.01	8.16- 8.22
22	B	Endrin Ketone	33.243	36.166 E6	-8.8	108	-0.01	8.85- 8.91
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	25.499 E6	11.3	94	0.00	10.37-10.43

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	27.853 E6	3.0	96	0.00	1.93- 1.99
2	A	alpha-BHC	43.199	42.751 E6	1.0	93	0.00	2.52- 2.58
3	MA	gamma-BHC	39.313	38.148 E6	3.0	92	0.00	2.90- 2.96
4	MA	Heptachlor	38.222	38.061 E6	0.4	97	0.00	3.41- 3.47
5	B	beta-BHC	17.731	15.913 E6	10.3	91	0.00	2.99- 3.05

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83267.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	28.318 E6	17.0	76	0.00	3.33- 3.39
7	MB	Aldrin	36.943	36.873 E6	0.2	94	0.00	3.81- 3.87
8	B	Heptachlor Epoxide	34.708	32.748 E6	5.6	93	0.00	4.56- 4.62
9	B	gamma-Chlordane	35.131	34.246 E6	2.5	94	0.00	4.83- 4.89
10	B	alpha-Chlordane	34.906	33.221 E6	4.8	93	0.00	5.04- 5.10
11	A	Endosulfan I	32.409	31.053 E6	4.2	94	0.00	5.12- 5.18
12	B	4,4'-DDE	32.012	30.132 E6	5.9	91	0.00	5.30- 5.36
13	MA	Dieldrin	34.782	34.642 E6	0.4	95	0.00	5.53- 5.59
14	MA	Endrin	32.829	31.702 E6	3.4	94	0.00	5.99- 6.05
15	A	4,4'-DDD	27.074	27.143 E6	-0.3	97	0.00	6.21- 6.27
16	B	Endosulfan II	31.860	31.640 E6	0.7	96	0.00	6.33- 6.39
17	MA	4,4'-DDT	20.269	16.836 E6	16.9	71	0.00	6.71- 6.77
18	B	Endrin Aldehyde	23.246	22.619 E6	2.7	96	0.00	6.88- 6.94
19	B	Endosulfan Sulfate	24.300	21.297 E6	12.4	86	0.00	7.34- 7.40
20	A	Methoxychlor	11.487	9.285 E6	19.2	74	0.00	7.90- 7.96
21		Mirex	26.077	21.697 E6	16.8	87	0.00	8.16- 8.22
22	B	Endrin Ketone	25.302	24.692 E6	2.4	92	0.00	8.24- 8.30
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	17.099 E6	15.6	87	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G82797.D 1PST2750.M Mon Sep 10 16:39:20 2012 RPT1

8.7.10

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83269.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G2760\1G83269.D\ECD1A.CH  Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G2760\1G83269.D\ECD2B.CH
Acq On    : 9-10-12 05:40:45 PM                       Operator: douglass
Sample    : CC2750-25                                 Inst    : GC1G
Misc      : OP59589,G1G2760,15.8,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST2750.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Sep 06 16:20:39 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	38.953	39.676 E6	-1.9	103	-0.02	2.39- 2.45
2	A	alpha-BHC	57.931	62.302 E6	-7.5	105	-0.02	3.00- 3.06
3	MA	gamma-BHC	53.387	56.002 E6	-4.9	104	-0.02	3.37- 3.43
4	MA	Heptachlor	48.172	53.026 E6	-10.1	109	-0.02	3.96- 4.02
5	B	beta-BHC	23.199	24.565 E6	-5.9	108	-0.02	3.46- 3.52
6	B	delta-BHC	49.306	51.849 E6	-5.2	105	-0.02	3.69- 3.75
7	MB	Aldrin	50.351	52.942 E6	-5.1	103	-0.02	4.36- 4.42
8	B	Heptachlor Epoxide	47.303	48.705 E6	-3.0	103	-0.02	5.21- 5.27
9	B	gamma-Chlordane	52.309	47.246 E6	9.7	95	-0.02	5.39- 5.45
10	B	alpha-Chlordane	49.480	47.193 E6	4.6	98	-0.02	5.59- 5.65
11	A	Endosulfan I	45.204	46.401 E6	-2.6	102	-0.02	5.81- 5.87
12	B	4,4'-DDE	43.694	43.605 E6	0.2	100	-0.02	5.69- 5.75
13	MA	Dieldrin	47.355	48.442 E6	-2.3	101	-0.02	6.17- 6.23
14	MA	Endrin	44.384	46.215 E6	-4.1	105	-0.02	6.55- 6.61
15	A	4,4'-DDD	39.147	40.217 E6	-2.7	102	-0.01	6.65- 6.71
16	B	Endosulfan II	41.243	41.320 E6	-0.2	101	-0.02	6.91- 6.97
17	MA	4,4'-DDT	30.184	30.402 E6	-0.7	97	-0.02	7.10- 7.16
18	B	Endrin Aldehyde	29.903	33.043 E6	-10.5	107	-0.02	7.61- 7.67
19	B	Endosulfan Sulfate	31.021	34.418 E6	-11.0	111	-0.02	8.35- 8.41
20	A	Methoxychlor	14.852	16.119 E6	-8.5	103	-0.01	7.92- 7.98
21		Mirex	35.752	34.741 E6	2.8	99	-0.02	8.16- 8.22
22	B	Endrin Ketone	33.243	39.296 E6	-18.2	115	-0.02	8.85- 8.91
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	28.746	27.266 E6	5.1	96	0.00	10.37-10.43

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	28.709	25.998 E6	9.4	89	0.00	1.93- 1.99
2	A	alpha-BHC	43.199	40.409 E6	6.5	89	0.00	2.51- 2.57
3	MA	gamma-BHC	39.313	36.309 E6	7.6	88	0.00	2.89- 2.95
4	MA	Heptachlor	38.222	35.590 E6	6.9	91	0.00	3.41- 3.47
5	B	beta-BHC	17.731	15.277 E6	13.8	86	0.00	2.98- 3.04

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G1G2760-CC2750
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 1G83269.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	34.117	30.367 E6	11.0	84	0.00	3.32- 3.38
7	MB	Aldrin	36.943	33.913 E6	8.2	87	0.00	3.81- 3.87
8	B	Heptachlor Epoxide	34.708	30.645 E6	11.7	86	0.00	4.56- 4.62
9	B	gamma-Chlordane	35.131	31.085 E6	11.5	86	0.00	4.83- 4.89
10	B	alpha-Chlordane	34.906	30.628 E6	12.3	86	0.00	5.04- 5.10
11	A	Endosulfan I	32.409	28.698 E6	11.5	86	0.00	5.12- 5.18
12	B	4,4'-DDE	32.012	27.696 E6	13.5	85	0.00	5.30- 5.36
13	MA	Dieldrin	34.782	31.228 E6	10.2	85	0.00	5.52- 5.58
14	MA	Endrin	32.829	30.223 E6	7.9	89	0.00	5.99- 6.05
15	A	4,4'-DDD	27.074	23.814 E6	12.0	86	0.00	6.20- 6.26
16	B	Endosulfan II	31.860	28.571 E6	10.3	85	0.00	6.33- 6.39
17	MA	4,4'-DDT	20.269	17.733 E6	12.5	80	0.00	6.70- 6.76
18	B	Endrin Aldehyde	23.246	21.879 E6	5.9	92	0.00	6.88- 6.94
19	B	Endosulfan Sulfate	24.300	23.385 E6	3.8	94	0.00	7.34- 7.40
20	A	Methoxychlor	11.487	10.220 E6	11.0	83	0.00	7.90- 7.96
21		Mirex	26.077	21.972 E6	15.7	86	0.00	8.15- 8.21
22	B	Endrin Ketone	25.302	27.087 E6	-7.1	100	0.00	8.24- 8.30
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	20.250	18.096 E6	10.6	89	0.00	10.25-10.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G83162.D 1PST2750.M Tue Sep 11 08:44:52 2012 RPT1

8.7.11

8

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G2G2458-ICC2458
Lab FileID: 2G71109.D

Response Factor Report HP G1530A

Method Path : C:\MSDCHEM\1\METHODS\
Method File : 2PCB2458.M
Title :
Last Update : Fri Sep 07 08:59:23 2012
Response Via : Initial Calibration

Calibration Files
50 =2g71106.D 250 =2g71107.D 500 =2g71108.D
1000 =2g71109.D 2000 =2g71110.D 3000 =2g71111.D

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m...	1.274	1.293	1.333	1.347	1.278	1.309	1.305 E8	2.27
2)	AR1221-A				2.518			2.518 E5	0.00
3)	AR1221-B				1.291			1.291 E6	0.00
4)	AR1221-C				7.782			7.782 E5	0.00
5)	AR1221-D				3.160			3.160 E6	0.00
6)	AR1221-E				5.718			5.718 E5	0.00
7)	AR1232-A				2.469			2.469 E6	0.00
8)	AR1232-B				2.252			2.252 E6	0.00
9)	AR1232-C				4.234			4.234 E6	0.00
10)	AR1232-D				1.678			1.678 E6	0.00
11)	AR1232-E				1.050			1.050 E6	0.00
12)	AR1242-A				4.081			4.081 E6	0.00
13)	AR1242-B				8.936			8.936 E6	0.00
14)	AR1242-C				3.491			3.491 E6	0.00
15)	AR1242-D				2.406			2.406 E6	0.00
16)	AR1242-E				3.596			3.596 E6	0.00
17)	AR1248-A				4.859			4.859 E6	0.00
18)	AR1248-B				2.899			2.899 E6	0.00
19)	AR1248-C				3.663			3.663 E6	0.00
20)	AR1248-D				4.593			4.593 E6	0.00
21)	AR1248-E				5.845			5.845 E6	0.00
22)	AR1248-F				4.292			4.292 E6	0.00
23)	AR1254-A				5.147			5.147 E6	0.00
24)	AR1254-B				7.147			7.147 E6	0.00
25)	AR1254-C				4.667			4.667 E6	0.00
26)	AR1254-D				9.365			9.365 E6	0.00
27)	AR1254-E				9.021			9.021 E6	0.00
28)	AR1254-F				6.090			6.090 E6	0.00
29)	AR1254-G				8.508			8.508 E6	0.00
30)	AR1016-A	1.756	1.944	2.013	2.005	1.824	1.862	1.900 E6	5.46
31)	AR1016-B	4.495	4.277	4.287	4.191	3.834	3.813	4.150 E6	6.54
32)	AR1016-C	9.257	8.958	9.179	9.360	8.923	9.121	9.133 E6	1.86
33)	AR1016-D	3.669	3.575	3.617	3.633	3.420	3.466	3.563 E6	2.78
34)	AR1016-E	2.469	2.425	2.469	2.511	2.375	2.421	2.445 E6	1.96
35)	AR1260-A	6.377	6.206	6.478	6.677	6.491	6.764	6.499 E6	3.10
36)	AR1260-B	4.368	4.269	4.444	4.553	4.433	4.419	4.414 E6	2.12
37)	AR1260-C	4.376	4.405	4.597	4.700	4.579	4.745	4.567 E6	3.30
38)	AR1260-D	1.037	1.039	1.171	1.203	1.184	1.236	1.145 E7	7.48
39)	AR1260-E	6.219	6.058	6.287	6.340	6.007	6.235	6.191 E6	2.11
40)	AR1262-A				7.626			7.626 E6	0.00
41)	AR1262-B				6.232			6.232 E6	0.00
42)	AR1262-C				1.503			1.503 E7	0.00
43)	AR1262-D				5.602			5.602 E6	0.00
44)	AR1262-E				4.749			4.749 E6	0.00
45)	AR1268-A				1.919			1.919 E7	0.00
46)	AR1268-B				1.900			1.900 E7	0.00

Initial Calibration Summary

Job Number: JB15113 **Sample:** G2G2458-ICC2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71109.D
Project: 508 West 24th Street, Manhattan, NY

47)		AR1268-C				1.511			1.511 E7	0.00
48)		AR1268-D				6.216			6.216 E6	0.00
49)		AR1268-E				4.590			4.590 E7	0.00
50)	S	Decachlorobip...	0.995	0.968	1.004	0.997	0.970	1.009	0.990 E8	1.74

Signal #2 Calibration Files

50	=2g71106.D	250	=2g71107.D	500	=2g71108.D
1000	=2g71109.D	2000	=2g71110.D	3000	=2g71111.D

		Compound	50	250	500	1000	2000	3000	Avg	%RSD
1)	S	Tetrachloro-m...	3.447	3.582	3.714	3.758	3.567	3.689	3.626 E7	3.18
2)		AR1221-A				8.585			8.585 E4	0.00
3)		AR1221-B				3.440			3.440 E5	0.00
4)		AR1221-C				1.884			1.884 E5	0.00
5)		AR1221-D				9.257			9.257 E5	0.00
6)		AR1221-E				1.130			1.130 E5	0.00
7)		AR1232-A				7.594			7.594 E5	0.00
8)		AR1232-B				5.853			5.853 E5	0.00
9)		AR1232-C				1.210			1.210 E6	0.00
10)		AR1232-D				5.484			5.484 E5	0.00
11)		AR1232-E				3.327			3.327 E5	0.00
12)		AR1242-A				1.126			1.126 E6	0.00
13)		AR1242-B				2.437			2.437 E6	0.00
14)		AR1242-C				1.107			1.107 E6	0.00
15)		AR1242-D				7.560			7.560 E5	0.00
16)		AR1242-E				1.054			1.054 E6	0.00
17)		AR1248-A				1.362			1.362 E6	0.00
18)		AR1248-B				8.864			8.864 E5	0.00
19)		AR1248-C				1.138			1.138 E6	0.00
20)		AR1248-D				1.426			1.426 E6	0.00
21)		AR1248-E				1.274			1.274 E6	0.00
22)		AR1248-F				9.923			9.923 E5	0.00
23)		AR1254-A				2.144			2.144 E6	0.00
24)		AR1254-B				1.749			1.749 E6	0.00
25)		AR1254-C				1.319			1.319 E6	0.00
26)		AR1254-D				2.417			2.417 E6	0.00
27)		AR1254-E				2.020			2.020 E6	0.00
28)		AR1254-F				1.499			1.499 E6	0.00
29)		AR1254-G				2.799			2.799 E6	0.00
30)		AR1016-A	5.547	5.174	5.580	5.665	5.446	5.571	5.497 E5	3.15
31)		AR1016-B	1.088	1.179	1.197	1.171	1.071	1.084	1.132 E6	4.98
32)		AR1016-C	2.454	2.520	2.596	2.574	2.423	2.463	2.505 E6	2.79
33)		AR1016-D	1.175	1.144	1.166	1.142	1.059	1.066	1.125 E6	4.47
34)		AR1016-E	7.622	7.619	7.790	7.754	7.325	7.415	7.587 E5	2.43
35)		AR1260-A	2.608	2.784	2.880	2.810	2.638	2.665	2.731 E6	3.99
36)		AR1260-B	1.946	2.017	2.089	2.036	1.911	1.934	1.989 E6	3.48
37)		AR1260-C	1.720	1.722	1.793	1.760	1.662	1.691	1.725 E6	2.72
38)		AR1260-D	4.763	4.774	4.893	4.834	4.556	4.607	4.738 E6	2.76
39)		AR1260-E	2.875	3.009	3.137	3.088	2.942	3.005	3.010 E6	3.16
40)		AR1262-A				3.347			3.347 E6	0.00
41)		AR1262-B				2.517			2.517 E6	0.00
42)		AR1262-C				6.064			6.064 E6	0.00
43)		AR1262-D				3.999			3.999 E6	0.00
44)		AR1262-E				2.177			2.177 E6	0.00
45)		AR1268-A				8.152			8.152 E6	0.00
46)		AR1268-B				7.847			7.847 E6	0.00
47)		AR1268-C				6.537			6.537 E6	0.00
48)		AR1268-D				2.658			2.658 E6	0.00
49)		AR1268-E				1.840			1.840 E7	0.00

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G2G2458-ICC2458
Lab FileID: 2G71109.D

```
 50) S   Decachlorobip... 3.829 4.061 4.234 4.131 3.884 3.971 4.018 E7  3.81
 ---------------------------------------------------------------------------
 (#) = Out of Range

2PCB2458.M Fri Sep 07 11:45:40 2012 RPT1
```

Initial Calibration Verification

Job Number: JB15113 **Sample:** G2G2458-ICV2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71116.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71116.D\ECD1A.CH  Vial: 13
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71116.D\ECD2B.CH
Acq On    : 06 Sep 2012   3:26 pm                    Operator: husamq
Sample    : icv2458-1000                             Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
30	AR1016-A	1.900	2.034 E6	-7.1	101	0.00	3.17- 3.23
31	AR1016-B	4.150	4.540 E6	-9.4	108	0.00	3.64- 3.71
32	AR1016-C	9.133	10.173 E6	-11.4	109	0.00	4.22- 4.28
33	AR1016-D	3.563	3.952 E6	-10.9	109	0.00	4.35- 4.41
34	AR1016-E	2.445	2.677 E6	-9.5	107	0.00	4.94- 5.00
35	AR1260-A	6.499	6.636 E6	-2.1	99	0.00	7.05- 7.11
36	AR1260-B	4.414	4.631 E6	-4.9	102	0.00	7.68- 7.74
37	AR1260-C	4.567	4.731 E6	-3.6	101	0.00	8.02- 8.08
38	AR1260-D	11.450	12.070 E6	-5.4	100	0.00	8.41- 8.47
39	AR1260-E	6.191	6.353 E6	-2.6	100	0.00	8.83- 8.89
*****	Signal #2 *****						
30	AR1016-A	549.709	622.796 E3	-13.3	110	0.00	2.68- 2.74
31	AR1016-B	1.132	1.309 E6	-15.6	112	0.00	3.10- 3.16
32	AR1016-C	2.505	2.827 E6	-12.9	110	0.00	3.63- 3.69
33	AR1016-D	1.125	1.272 E6	-13.1	111	0.00	3.78- 3.84
34	AR1016-E	758.743	833.342 E3	-9.8	107	0.00	4.33- 4.39
35	AR1260-A	2.731	2.819 E6	-3.2	100	0.00	6.29- 6.35
36	AR1260-B	1.989	2.067 E6	-3.9	102	0.00	6.88- 6.94
37	AR1260-C	1.725	1.807 E6	-4.8	103	0.00	7.27- 7.33
38	AR1260-D	4.738	4.875 E6	-2.9	101	0.00	7.64- 7.70
39	AR1260-E	3.010	3.093 E6	-2.8	100	0.00	8.12- 8.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2g71109.D 2PCB2458.M Fri Sep 07 11:45:08 2012 RPT1

Initial Calibration Verification

Job Number: JB15113 **Sample:** G2G2458-ICV2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71117.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71117.D\ECD1A.CH  Vial: 14
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71117.D\ECD2B.CH
Acq On    : 06 Sep 2012   3:42 pm                    Operator: husamq
Sample    : icv2458-1000                             Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
2	AR1221-A	251.797	263.872 E3	-4.8	105	0.00	3.81- 4.01
3	AR1221-B	1.291	1.310 E6	-1.5	101	0.00	2.92- 3.12
4	AR1221-C	778.183	755.900 E3	2.9	97	0.00	3.03- 3.23
5	AR1221-D	3.160	3.261 E6	-3.2	103	0.00	3.09- 3.29
6	AR1221-E	571.819	546.430 E3	4.4	96	0.00	3.61- 3.81
***** Signal #2 *****							
2	AR1221-A	85.851	102.313 E3	-19.2	119	0.00	3.28- 3.48
3	AR1221-B	343.957	363.397 E3	-5.7	106	0.00	2.42- 2.62
4	AR1221-C	188.398	183.294 E3	2.7	97	0.00	2.55- 2.75
5	AR1221-D	925.687	975.890 E3	-5.4	105	0.00	2.61- 2.81
6	AR1221-E	113.029	117.224 E3	-3.7	104	0.00	3.14- 3.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2g71109.D 2PCB2458.M Fri Sep 07 11:45:10 2012 RPT1

8.7.14

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G2G2458-ICV2458
Lab FileID: 2G71118.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71118.D\ECD1A.CH  Vial: 15
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71118.D\ECD2B.CH
Acq On    : 06 Sep 2012   3:59 pm                    Operator: husamq
Sample    : icv2458-1000                             Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
7	AR1232-A	2.469	2.496 E6	-1.1	101	0.00	3.09- 3.29
8	AR1232-B	2.252	2.179 E6	3.2	97	0.00	3.58- 3.78
9	AR1232-C	4.234	4.154 E6	1.9	98	0.00	4.15- 4.35
10	AR1232-D	1.678	1.673 E6	0.3	100	0.00	4.28- 4.48
24	AR1254-B	7.147	6.673 E6	6.6	93	0.00	5.78- 5.98
25	AR1254-C	4.667	4.397 E6	5.8	94	0.00	6.16- 6.36
26	AR1254-D	9.365	8.384 E6	10.5	90	0.00	6.30- 6.50
28	AR1254-F	6.090	6.244 E6	-2.5	103	0.00	7.05- 7.25
29	AR1254-G	8.508	8.122 E6	4.5	95	0.00	7.38- 7.58
*****	Signal #2 *****						
7	AR1232-A	759.370	729.174 E3	4.0	96	0.00	2.61- 2.81
8	AR1232-B	585.335	551.989 E3	5.7	94	0.00	3.03- 3.23
9	AR1232-C	1.210	1.154 E6	4.6	95	0.00	3.56- 3.76
10	AR1232-D	548.417	544.864 E3	0.6	99	0.00	3.71- 3.91
24	AR1254-B	1.749	1.766 E6	-1.0	101	0.00	5.06- 5.26
25	AR1254-C	1.319	1.253 E6	5.0	95	0.00	5.49- 5.69
26	AR1254-D	2.417	2.252 E6	6.8	93	0.00	5.65- 5.85
28	AR1254-F	1.499	1.583 E6	-5.6	106	0.00	6.43- 6.63
29	AR1254-G	2.799	2.742 E6	2.0	98	0.00	6.68- 6.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2g71109.D 2PCB2458.M Fri Sep 07 11:45:12 2012 RPT1

Initial Calibration Verification

Job Number: JB15113 **Sample:** G2G2458-ICV2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71119.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71119.D\ECD1A.CH  Vial: 16
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71119.D\ECD2B.CH
Acq On    : 06 Sep 2012   4:15 pm                    Operator: husamq
Sample    : icv2458-1000                             Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
12	AR1242-A	4.081	3.571 E6	12.5	88	0.00	3.58- 3.78
13	AR1242-B	8.936	7.778 E6	13.0	87	0.00	4.15- 4.35
14	AR1242-C	3.491	3.050 E6	12.6	87	0.00	4.28- 4.48
15	AR1242-D	2.406	2.131 E6	11.4	89	0.00	4.87- 5.07
16	AR1242-E	3.596	3.704 E6	-3.0	103	0.00	5.46- 5.66
40	AR1262-A	7.626	7.794 E6	-2.2	102	0.00	7.62- 7.82
41	AR1262-B	6.232	6.437 E6	-3.3	103	0.00	7.95- 8.15
42	AR1262-C	15.034	15.223 E6	-1.3	101	0.00	8.34- 8.54
43	AR1262-D	5.602	5.851 E6	-4.4	104	0.00	8.88- 9.08
44	AR1262-E	4.749	4.792 E6	-0.9	101	0.00	9.65- 9.85
*****	Signal #2 *****						
12	AR1242-A	1.126	1.022 E6	9.2	91	0.00	3.03- 3.23
13	AR1242-B	2.437	2.191 E6	10.1	90	0.00	3.56- 3.76
14	AR1242-C	1.107	1.010 E6	8.8	91	0.00	3.71- 3.91
15	AR1242-D	756.000	680.696 E3	10.0	90	0.00	4.26- 4.46
16	AR1242-E	1.054	0.917 E6	13.0	87	0.00	4.83- 5.03
40	AR1262-A	3.347	3.413 E6	-2.0	102	0.00	6.81- 7.01
41	AR1262-B	2.517	2.631 E6	-4.5	105	0.00	7.20- 7.40
42	AR1262-C	6.064	6.128 E6	-1.1	101	0.00	7.57- 7.77
43	AR1262-D	3.999	4.088 E6	-2.2	102	0.00	8.05- 8.25
44	AR1262-E	2.177	2.213 E6	-1.7	102	0.00	8.88- 9.08

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2g71109.D  2PCB2458.M       Fri Sep 07 11:45:14 2012   RPT1
```

Initial Calibration Verification

Job Number: JB15113 **Sample:** G2G2458-ICV2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71120.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71120.D\ECD1A.CH  Vial: 17
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71120.D\ECD2B.CH
Acq On    : 06 Sep 2012   4:32 pm                    Operator: husamq
Sample    : icv2458-1000                             Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
17	AR1248-A	4.859	4.953 E6	-1.9	102	0.00	4.15- 4.35
18	AR1248-B	2.899	2.809 E6	3.1	97	0.00	4.59- 4.79
19	AR1248-C	3.663	3.506 E6	4.3	96	0.00	4.87- 5.07
20	AR1248-D	4.593	4.373 E6	4.8	95	0.00	5.04- 5.24
21	AR1248-E	5.845	5.525 E6	5.5	95	0.00	5.46- 5.66
22	AR1248-F	4.292	4.066 E6	5.3	95	0.00	5.70- 5.90
45	AR1268-A	19.193	17.722 E6	7.7	92	0.00	8.88- 9.08
46	AR1268-B	18.997	19.984 E6	-5.2	105	0.00	8.95- 9.15
47	AR1268-C	15.108	13.230 E6	12.4	88	0.00	9.35- 9.55
48	AR1268-D	6.216	5.320 E6	14.4	86	0.00	9.65- 9.85
*****	Signal #2 *****						
17	AR1248-A	1.362	1.336 E6	1.9	98	0.00	3.56- 3.76
18	AR1248-B	886.365	830.894 E3	6.3	94	0.00	3.95- 4.15
19	AR1248-C	1.138	1.049 E6	7.8	92	0.00	4.26- 4.46
20	AR1248-D	1.426	1.309 E6	8.2	92	0.00	4.42- 4.62
21	AR1248-E	1.274	1.135 E6	10.9	89	0.00	4.82- 5.02
22	AR1248-F	992.271	859.206 E3	13.4	87	0.00	5.10- 5.30
45	AR1268-A	8.152	7.520 E6	7.8	92	0.00	8.05- 8.25
46	AR1268-B	7.847	8.128 E6	-3.6	104	0.00	8.12- 8.32
47	AR1268-C	6.537	5.705 E6	12.7	87	0.00	8.45- 8.65
48	AR1268-D	2.658	2.238 E6	15.8	84	0.00	8.88- 9.08

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2g71109.D  2PCB2458.M       Fri Sep 07 11:45:16 2012   RPT1
```

8.7.17

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G2G2458-ICV2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71121.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G2458\2g71121.D\ECD1A.CH  Vial: 18
Signal #2 : C:\msdchem\1\DATA\2G2458\2g71121.D\ECD2B.CH
Acq On    : 06 Sep 2012   4:48 pm                    Operator: husamq
Sample    : icv2458-40                               Inst    : HP G1530A
Misc      : OP59507,G2G2458,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%

       Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   Tetrachloro-m-xylene   130.539 120.823 E6   7.4   90   0.00    2.78- 2.84
50 S   Decachlorobiphenyl      99.040  88.084 E6  11.1   88   0.00   10.65-10.71

*****  Signal #2   *****

 1 S   Tetrachloro-m-xylene    36.261  31.979 E6  11.8   85   0.00    2.24- 2.30
50 S   Decachlorobiphenyl      40.184  36.317 E6   9.6   88   0.00    9.74- 9.80
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g71109.D  2PCB2458.M       Fri Sep 07 11:45:18 2012   RPT1
```

8.7.18

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G2G2459-CC2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71122.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2g2459\2g71122.D\ECD1A.CH  Vial: 19
Signal #2 : C:\msdchem\1\DATA\2g2459\2g71122.D\ECD2B.CH
Acq On    : 06 Sep 2012   5:32 pm                    Operator: husamq
Sample    : cc2458-500                               Inst    : HP G1530A
Misc      : OP59507,G2G2459,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	130.539	139.863 E6	-7.1	105	0.02	2.79- 2.85
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1254-A		----------NA----------				
24	AR1254-B		----------NA----------				
25	AR1254-C		----------NA----------				
26	AR1254-D		----------NA----------				
27	AR1254-E		----------NA----------				
28	AR1254-F		----------NA----------				
29	AR1254-G		----------NA----------				
30	AR1016-A	1.900	2.103 E6	-10.7	104	0.02	3.18- 3.24
31	AR1016-B	4.150	4.483 E6	-8.0	105	0.01	3.65- 3.72
32	AR1016-C	9.133	9.644 E6	-5.6	105	0.02	4.23- 4.29
33	AR1016-D	3.563	3.804 E6	-6.8	105	0.02	4.36- 4.42
34	AR1016-E	2.445	2.656 E6	-8.6	108	0.02	4.96- 5.02
35	AR1260-A	6.499	6.925 E6	-6.6	107	0.01	7.07- 7.13
36	AR1260-B	4.414	4.800 E6	-8.7	108	0.02	7.70- 7.76
37	AR1260-C	4.567	4.926 E6	-7.9	107	0.01	8.03- 8.09
38	AR1260-D	11.450	12.360 E6	-7.9	106	0.01	8.42- 8.48
39	AR1260-E	6.191	6.434 E6	-3.9	102	0.01	8.84- 8.90
40	AR1262-A		----------NA----------				
41	AR1262-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G2G2459-CC2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71122.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1262-C	----------NA----------						
43		AR1262-D	----------NA----------						
44		AR1262-E	----------NA----------						
45		AR1268-A	----------NA----------						
46		AR1268-B	----------NA----------						
47		AR1268-C	----------NA----------						
48		AR1268-D	----------NA----------						
49		AR1268-E	----------NA----------						
50	S	Decachlorobiphenyl	99.040	106.316	E6	-7.3	106	0.01	10.66-10.72

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	36.261	37.330	E6	-2.9	101	0.00	2.24- 2.30
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	----------NA----------						
18		AR1248-B	----------NA----------						
19		AR1248-C	----------NA----------						
20		AR1248-D	----------NA----------						
21		AR1248-E	----------NA----------						
22		AR1248-F	----------NA----------						
23		AR1254-A	----------NA----------						
24		AR1254-B	----------NA----------						
25		AR1254-C	----------NA----------						
26		AR1254-D	----------NA----------						
27		AR1254-E	----------NA----------						
28		AR1254-F	----------NA----------						
29		AR1254-G	----------NA----------						
30		AR1016-A	549.709	601.821	E3	-9.5	108	0.00	2.69- 2.75
31		AR1016-B	1.132	1.188	E6	-4.9	99	0.00	3.10- 3.16
32		AR1016-C	2.505	2.652	E6	-5.9	102	0.00	3.63- 3.69
33		AR1016-D	1.125	1.189	E6	-5.7	102	0.00	3.78- 3.84
34		AR1016-E	758.743	819.351	E3	-8.0	105	0.00	4.34- 4.40
35		AR1260-A	2.731	2.925	E6	-7.1	102	0.00	6.29- 6.35
36		AR1260-B	1.989	2.118	E6	-6.5	101	0.00	6.89- 6.95
37		AR1260-C	1.725	1.855	E6	-7.5	103	0.00	7.27- 7.33
38		AR1260-D	4.738	5.076	E6	-7.1	104	0.00	7.64- 7.70
39		AR1260-E	3.010	3.294	E6	-9.4	105	0.00	8.13- 8.19
40		AR1262-A	----------NA----------						
41		AR1262-B	----------NA----------						
42		AR1262-C	----------NA----------						
43		AR1262-D	----------NA----------						
44		AR1262-E	----------NA----------						
45		AR1268-A	----------NA----------						
46		AR1268-B	----------NA----------						
47		AR1268-C	----------NA----------						
48		AR1268-D	----------NA----------						

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G2G2459-CC2458
Lab FileID: 2G71122.D

```
49     AR1268-E                          ----------NA----------
50 S   Decachlorobiphenyl      40.184  42.560 E6  -5.9  101   0.00    9.74- 9.80
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g71108.D  2PCB2458.M       Fri Sep 07 11:59:34 2012   RPT1
```

8.7.19

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G2G2459-CC2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71133.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2g2459\2g71133.D\ECD1A.CH  Vial: 30
Signal #2 : C:\msdchem\1\DATA\2g2459\2g71133.D\ECD2B.CH
Acq On    : 06 Sep 2012   8:49 pm                    Operator: husamq
Sample    : cc2458-1000                              Inst    : HP G1530A
Misc      : OP59507,G2G2459,15.3,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB2458.M (Chemstation Integrator)
Title        :
Last Update  : Fri Sep 07 08:59:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	130.539	142.429 E6	-9.1	106	0.00	2.78- 2.84
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1254-A		----------NA----------				
24	AR1254-B		----------NA----------				
25	AR1254-C		----------NA----------				
26	AR1254-D		----------NA----------				
27	AR1254-E		----------NA----------				
28	AR1254-F		----------NA----------				
29	AR1254-G		----------NA----------				
30	AR1016-A	1.900	2.094 E6	-10.2	104	0.00	3.17- 3.23
31	AR1016-B	4.150	4.414 E6	-6.4	105	0.00	3.64- 3.71
32	AR1016-C	9.133	9.844 E6	-7.8	105	0.00	4.22- 4.28
33	AR1016-D	3.563	3.827 E6	-7.4	105	0.00	4.35- 4.41
34	AR1016-E	2.445	2.653 E6	-8.5	106	0.00	4.94- 5.00
35	AR1260-A	6.499	6.852 E6	-5.4	103	0.00	7.05- 7.11
36	AR1260-B	4.414	4.372 E6	1.0	96	0.00	7.69- 7.75
37	AR1260-C	4.567	4.708 E6	-3.1	100	0.00	8.02- 8.08
38	AR1260-D	11.450	11.938 E6	-4.3	99	0.00	8.41- 8.47
39	AR1260-E	6.191	6.199 E6	-0.1	98	0.00	8.83- 8.89
40	AR1262-A		----------NA----------				
41	AR1262-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G2G2459-CC2458
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 2G71133.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1262-C		----------NA----------					
43		AR1262-D		----------NA----------					
44		AR1262-E		----------NA----------					
45		AR1268-A		----------NA----------					
46		AR1268-B		----------NA----------					
47		AR1268-C		----------NA----------					
48		AR1268-D		----------NA----------					
49		AR1268-E		----------NA----------					
50	S	Decachlorobiphenyl	99.040	92.460 E6	6.6	93	0.00	10.65-10.71	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	36.261	40.131 E6	-10.7	107	0.00	2.24- 2.30	
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1254-A		----------NA----------					
24		AR1254-B		----------NA----------					
25		AR1254-C		----------NA----------					
26		AR1254-D		----------NA----------					
27		AR1254-E		----------NA----------					
28		AR1254-F		----------NA----------					
29		AR1254-G		----------NA----------					
30		AR1016-A	549.709	625.003 E3	-13.7	110	0.00	2.68- 2.74	
31		AR1016-B	1.132	1.238 E6	-9.4	106	0.00	3.10- 3.16	
32		AR1016-C	2.505	2.723 E6	-8.7	106	0.00	3.63- 3.69	
33		AR1016-D	1.125	1.236 E6	-9.9	108	0.00	3.78- 3.84	
34		AR1016-E	758.743	837.725 E3	-10.4	108	0.00	4.33- 4.39	
35		AR1260-A	2.731	2.961 E6	-8.4	105	0.00	6.29- 6.35	
36		AR1260-B	1.989	2.120 E6	-6.6	104	0.00	6.88- 6.94	
37		AR1260-C	1.725	1.831 E6	-6.1	104	0.00	7.26- 7.32	
38		AR1260-D	4.738	4.938 E6	-4.2	102	0.00	7.64- 7.70	
39		AR1260-E	3.010	3.100 E6	-3.0	100	0.00	8.12- 8.18	
40		AR1262-A		----------NA----------					
41		AR1262-B		----------NA----------					
42		AR1262-C		----------NA----------					
43		AR1262-D		----------NA----------					
44		AR1262-E		----------NA----------					
45		AR1268-A		----------NA----------					
46		AR1268-B		----------NA----------					
47		AR1268-C		----------NA----------					
48		AR1268-D		----------NA----------					

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G2G2459-CC2458
Lab FileID: 2G71133.D

```
49     AR1268-E                          ----------NA----------
50 S   Decachlorobiphenyl      40.184  39.486 E6   1.7   96   0.00    9.73- 9.79
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g71109.D  2PCB2458.M       Fri Sep 07 11:59:13 2012   RPT1
```

8.7.20

8

Initial Calibration Summary

Job Number: JB15113 **Sample:** G4G525-ICC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G20027.D
Project: 508 West 24th Street, Manhattan, NY

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 27 16:03:50 2012
Response via : Initial Calibration

Calibration Files
2 =4g20024.D 5 =4g20025.D 10 =4g20026.D 25 =4g20027.D
50 =4g20028.D 100 =4g20029.D 1 =4g20023.D

Compound	2	5	10	25	50	100	1	Avg	%RSD
1)SABTetrachloro-m-xyl	3.469	3.673	3.695	3.830	3.997	4.439	4.166	3.896 E6	8.48
2)A alpha-BHC	4.082	4.385	4.617	5.216	5.815	6.795	4.534	5.063 E6	18.89
3)MAgamma-BHC	3.973	4.322	4.482	4.993	5.471	6.323	4.510	4.868 E6	16.50
4)MAHeptachlor	3.835	4.117	4.173	4.536	5.014	5.726	4.535	4.562 E6	13.97
5)B beta-BHC	2.226	2.252	2.216	2.298	2.404	2.614	2.617	2.375 E6	7.38
6)B delta-BHC	3.114	3.360	3.544	4.123	4.688		3.844	3.779 E6	15.07
7)MBAldrin	3.659	3.835	3.991	4.398	4.817	5.526	3.982	4.315 E6	15.26
8)B Heptachlor Epoxid	3.706	3.860	3.939	4.218	4.510	5.002	4.067	4.186 E6	10.61
9)B gamma-Chlordane	3.727	3.876	3.949	4.231	4.534	5.161	4.281	4.251 E6	11.42
10)B alpha-Chlordane	3.686	3.812	3.912	4.140	4.394	4.964	4.196	4.158 E6	10.35
11)A Endosulfan I	3.563	3.683	3.783	4.036	4.272	4.797	4.053	4.027 E6	10.37
12)B 4,4'-DDE	2.779	2.845	3.018	3.280	3.627	4.317	3.199	3.295 E6	16.20
13)MADieldrin	3.493	3.548	3.773	4.133	4.486	5.114	4.028	4.082 E6	14.01
14)MAEndrin	3.187	3.290	3.453	3.696	4.004	4.586	3.829	3.721 E6	12.91
15)A 4,4'-DDD	2.759	2.546	2.597	2.707	2.993	3.530	3.408	2.934 E6	13.41
16)B Endosulfan II	3.484	3.308	3.394	3.564	3.878	4.412	4.237	3.754 E6	11.50
17)MA4,4'-DDT	1.958	2.008	2.255	2.544	3.040		2.277	2.347 E6	17.03
18)B Endrin Aldehyde	2.505	2.423	2.671	2.696	2.762	3.293	2.800	2.736 E6	10.25
19)B Endosulfan Sulfat	2.766	2.730	2.875	2.991	3.171	3.604	3.132	3.038 E6	9.92
20)A Methoxychlor	1.142	1.220	1.311	1.418	1.531	1.730	1.348	1.386 E6	14.26
21) Mirex	3.363	3.327	3.338	3.276	3.296	3.533	4.102	3.462 E6	8.50
22)B Endrin Ketone	2.824	2.894	3.165	3.196	3.306	3.925	3.212	3.218 E6	11.14
23)L8Toxaphene{A}					1.026			1.026 E5	0.00
24)L8Toxaphene{B}					1.897			1.897 E5	0.00
25)L8Toxaphene{C}					1.291			1.291 E5	0.00
26)L8Toxaphene{D}					1.016			1.016 E5	0.00
27)L8Toxaphene{E}					1.243			1.243 E5	0.00
28) Chlordane {A}					1.333			1.333 E5	0.00
29) Chlordane {B}					1.815			1.815 E5	0.00
30) Chlordane {C}					6.866			6.866 E5	0.00
31) Chlordane {D}					1.162			1.162 E6	0.00
32) Chlordane {E}					1.502			1.502 E5	0.00
33)SADecachlorobipheny	2.796	2.896	2.886	2.864	2.889	3.123	3.485	2.991 E6	8.03

Signal #2

1)SABTetrachloro-m-xyl	3.333	3.210	3.147	3.075	3.359	3.638	4.424	3.455 E6	13.45
2)A alpha-BHC	4.257	4.317	4.318	4.544	4.864	5.568	4.766	4.662 E6	9.94
3)MAgamma-BHC	4.037	4.166	4.127	4.296	4.584	5.200	4.631	4.434 E6	9.17
4)MAHeptachlor	4.026	4.036	3.925	3.992	4.169	4.670	4.780	4.228 E6	8.24
5)B beta-BHC	2.107	2.040	1.975	1.899	1.936	2.069	2.510	2.077 E6	9.86
6)B delta-BHC	3.388	3.403	3.424	3.599	3.829	4.503	3.880	3.718 E6	10.78
7)MBAldrin	4.392	4.008	3.828	3.858	4.019	4.519	5.819	4.349 E6	16.07
8)B Heptachlor Epoxid	3.857	3.847	3.736	3.664	3.787	4.140	4.700	3.962 E6	9.04
9)B gamma-Chlordane	3.830	3.790	3.664	3.661	3.831	4.246	4.537	3.937 E6	8.36
10)B alpha-Chlordane	3.740	3.714	3.573	3.565	3.686	4.068	4.452	3.828 E6	8.41
11)A Endosulfan I	3.610	3.553	3.402	3.383	3.477	3.823	4.210	3.637 E6	8.07

Initial Calibration Summary

Job Number: JB15113 **Sample:** G4G525-ICC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G20027.D
Project: 508 West 24th Street, Manhattan, NY

12)B 4,4'-DDE	3.362	3.393	3.302	3.336	3.510	3.948	3.878	3.533	E6	7.61
13)MADieldrin	3.723	3.811	3.686	3.756	3.866	4.299	4.441	3.940	E6	7.66
14)MAEndrin	3.356	3.423	3.301	3.276	3.431	3.846	4.052	3.526	E6	8.51
15)A 4,4'-DDD	2.643	2.639	2.581	2.491	2.588	2.949	3.312	2.743	E6	10.53
16)B Endosulfan II	3.612	3.622	3.558	3.505	3.630	3.961	4.319	3.744	E6	7.82
17)MA4,4'-DDT	1.958	2.136	2.266	2.384	2.680	3.091	2.290	2.401	E6	15.69
18)B Endrin Aldehyde	2.590	2.449	2.499	2.406	2.402	2.761	3.092	2.600	E6	9.66
19)B Endosulfan Sulfat	2.916	2.856	2.791	2.682	2.708	2.963	3.403	2.903	E6	8.39
20)A Methoxychlor	1.222	1.283	1.339	1.355	1.402	1.514	1.482	1.371	E6	7.59
21) Mirex	3.238	3.181	3.036	2.813	2.732	2.865	3.971	3.120	E6	13.47
22)B Endrin Ketone	2.956	3.087	3.165	2.987	2.963	3.406	3.483	3.149	E6	6.85
23)L8Toxaphene{A}					8.528			8.528	E4	0.00
24)L8Toxaphene{B}					1.105			1.105	E5	0.00
25)L8Toxaphene{C}					2.129			2.129	E5	0.00
26)L8Toxaphene{D}					1.125			1.125	E5	0.00
27)L8Toxaphene{E}					9.623			9.623	E4	0.00
28) Chlordane {A}					1.346			1.346	E5	0.00
29) Chlordane {B}					1.394			1.394	E5	0.00
30) Chlordane {C}					5.213			5.213	E5	0.00
31) Chlordane {D}					9.316			9.316	E5	0.00
32) Chlordane {E}					1.308			1.308	E5	0.00
33)SADecachlorobipheny	2.781	2.800	2.610	2.465	2.468	2.613	3.234	2.710	E6	9.84

(#) = Out of Range

4PST525.M Wed Jun 27 16:09:04 2012 RPT1

8.7.21

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-ICV525
Lab FileID: 4G20032.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g525\4g20032.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g525\4g20032.D\ECD2B.ch
Acq On    : 26 Jun 2012   4:59 pm                    Operator: douglass
Sample    : ICV525-25                                Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 16:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
2 A	alpha-BHC	5.063	5.797 E6	-14.5	111	0.00	2.82- 2.88
3 MA	gamma-BHC	4.868	5.366 E6	-10.2	107	0.00	3.13- 3.19
4 MA	Heptachlor	4.562	5.069 E6	-11.1	112	0.00	3.63- 3.71
5 B	beta-BHC	2.375	2.448 E6	-3.1	107	0.00	3.21- 3.27
6 B	delta-BHC	3.779	4.343 E6	-14.9	105	0.00	3.41- 3.47
7 MB	Aldrin	4.315	4.976 E6	-15.3	113	0.00	4.00- 4.07
8 B	Heptachlor Epoxide	4.186	4.562 E6	-9.0	108	0.00	4.75- 4.84
9 B	gamma-Chlordane	4.251	4.649 E6	-9.4	110	0.00	4.93- 5.00
10 B	alpha-Chlordane	4.158	4.578 E6	-10.1	111	0.00	5.09- 5.20
11 A	Endosulfan I	4.027	4.460 E6	-10.8	111	0.00	5.31- 5.38
12 B	4,4'-DDE	3.295	3.581 E6	-8.7	109	0.00	5.21- 5.28
13 MA	Dieldrin	4.082	4.568 E6	-11.9	111	0.00	5.65- 5.72
14 MA	Endrin	3.721	4.089 E6	-9.9	111	0.00	5.99- 6.09
15 A	4,4'-DDD	2.934	2.882 E6	1.8	106	0.00	6.10- 6.17
16 B	Endosulfan II	3.754	3.602 E6	4.0	101	0.00	6.34- 6.42
17 MA	4,4'-DDT	2.347	2.726 E6	-16.1	107	0.00	6.52- 6.62
18 B	Endrin Aldehyde	2.736	2.720 E6	0.6	101	0.00	7.00- 7.08
19 B	Endosulfan Sulfate	3.038	3.156 E6	-3.9	106	0.00	7.71- 7.79
20 A	Methoxychlor	1.386	1.472 E6	-6.2	104	0.00	7.32- 7.42
21	Mirex	3.462	3.359 E6	3.0	103	0.00	7.54- 7.64
22 B	Endrin Ketone	3.218	3.143 E6	2.3	98	0.00	8.19- 8.27

***** Signal #2 *****

2 A	alpha-BHC	4.662	4.914 E6	-5.4	108	0.00	2.61- 2.67
3 MA	gamma-BHC	4.434	4.496 E6	-1.4	105	0.00	2.94- 3.00
4 MA	Heptachlor	4.228	4.307 E6	-1.9	108	0.00	3.41- 3.47
5 B	beta-BHC	2.077	2.044 E6	1.6	108	0.00	3.02- 3.08
6 B	delta-BHC	3.718	3.770 E6	-1.4	105	0.00	3.32- 3.38
7 MB	Aldrin	4.349	4.154 E6	4.5	108	0.00	3.78- 3.84
8 B	Heptachlor Epoxide	3.962	3.950 E6	0.3	108	0.00	4.47- 4.53
9 B	gamma-Chlordane	3.937	3.991 E6	-1.4	109	0.00	4.73- 4.79
10 B	alpha-Chlordane	3.828	3.858 E6	-0.8	108	0.00	4.93- 4.99
11 A	Endosulfan I	3.637	3.650 E6	-0.4	108	0.00	5.01- 5.07
12 B	4,4'-DDE	3.533	3.624 E6	-2.6	109	0.00	5.17- 5.23
13 MA	Dieldrin	3.940	4.021 E6	-2.1	107	0.00	5.39- 5.45
14 MA	Endrin	3.526	3.578 E6	-1.5	109	0.00	5.84- 5.90
15 A	4,4'-DDD	2.743	2.628 E6	4.2	105	0.00	6.04- 6.10
16 B	Endosulfan II	3.744	3.573 E6	4.6	102	0.00	6.17- 6.23
17 MA	4,4'-DDT	2.401	2.542 E6	-5.9	107	0.00	6.53- 6.59
18 B	Endrin Aldehyde	2.600	2.398 E6	7.8	100	0.00	6.70- 6.76

Initial Calibration Verification

Job Number: JB15113 **Sample:** G4G525-ICV525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G20032.D
Project: 508 West 24th Street, Manhattan, NY

19	B	Endosulfan Sulfate	2.903	2.816 E6	3.0	105	0.00	7.15- 7.21
20	A	Methoxychlor	1.371	1.469 E6	-7.1	108	0.00	7.69- 7.75
21		Mirex	3.120	2.872 E6	7.9	102	0.00	7.95- 8.01
22	B	Endrin Ketone	3.149	2.919 E6	7.3	98	0.00	8.03- 8.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20027.D 4PST525.M Wed Jun 27 16:09:31 2012 RPT1

8.7.22

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G4G525-ICV525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G20033.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g525\4g20033.D\ECD1A.ch   Vial: 13
Signal #2 : C:\msdchem\1\DATA\4g525\4g20033.D\ECD2B.ch
Acq On    : 26 Jun 2012   5:14 pm                    Operator: douglass
Sample    : ICV525-500                               Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 08:10:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 SAB	Tetrachloro-m-xylene	3.896	4.271 E6	-9.6	107	0.00	2.34- 2.40
28	Chlordane {A}	133.327	159.509 E3	-19.6	120	0.00	3.48- 3.68
29	Chlordane {B}	181.482	180.326 E3	0.6	99	0.00	4.08- 4.28
30	Chlordane {C}	686.618	578.442 E3	15.8	84	0.00	4.86- 5.06
31	Chlordane {D}	1.162	0.917 E6	21.1#	79	0.02	5.04- 5.24
32	Chlordane {E}	150.207	135.974 E3	9.5	91	0.00	6.18- 6.38
	Chlordane total	231.363	197.125 E4	14.8	85		
33 SA	Decachlorobiphenyl	2.991	3.074 E6	-2.8	106	0.00	9.89- 9.96

***** Signal #2 *****

1 SAB	Tetrachloro-m-xylene	3.455	3.505 E6	-1.4	104	0.00	2.14- 2.20
28	Chlordane {A}	134.582	152.925 E3	-13.6	114	0.00	3.18- 3.38
29	Chlordane {B}	139.374	139.910 E3	-0.4	100	0.00	3.87- 4.07
30	Chlordane {C}	521.258	436.567 E3	16.2	84	0.00	4.66- 4.86
31	Chlordane {D}	931.582	731.243 E3	21.5#	78	0.07	4.85- 5.05
32	Chlordane {E}	130.813	120.030 E3	8.2	92	0.00	6.17- 6.37
	Chlordane total	185.761	158.068 E4	14.9	85		
33 SA	Decachlorobiphenyl	2.710	2.616 E6	3.5	106	0.00	10.10-10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20028.D 4PST525.M Wed Jun 27 08:12:48 2012 RPT1

8.7.23

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G4G525-ICV525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G20034.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g525\4g20034.D\ECD1A.ch   Vial: 14
Signal #2 : C:\msdchem\1\DATA\4g525\4g20034.D\ECD2B.ch
Acq On    : 26 Jun 2012   5:28 pm                    Operator: douglass
Sample    : ICV525-500                               Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 08:10:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
23 L8	Toxaphene{A}	102.640	82.952 E3	19.2	81	0.00	5.82- 6.02
24 L8	Toxaphene{B}	189.680	154.748 E3	18.4	82	0.00	6.27- 6.47
25 L8	Toxaphene{C}	129.067	116.630 E3	9.6	90	0.00	6.80- 7.00
26 L8	Toxaphene{D}	101.650	114.522 E3	-12.7	113	0.00	7.34- 7.54
27 L8	Toxaphene{E}	124.317	110.893 E3	10.8	89	0.00	7.50- 7.70
28	Toxaphene total	647.354	579.745 E3	10.4	89		
*****	Signal #2 *****						
23 L8	Toxaphene{A}	85.279	77.117 E3	9.6	90	0.00	5.30- 5.50
24 L8	Toxaphene{B}	110.510	100.236 E3	9.3	91	0.00	6.08- 6.28
25 L8	Toxaphene{C}	212.940	193.284 E3	9.2	91	0.00	6.23- 6.43
26 L8	Toxaphene{D}	112.495	109.519 E3	2.6	97	0.00	6.65- 6.85
27 L8	Toxaphene{E}	96.228	86.740 E3	9.9	90	0.00	7.48- 7.68
28	Toxaphene total	617.452	566.896 E3	8.2	91		

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20028.D 4PST525.M Wed Jun 27 08:12:51 2012 RPT1

8.7.24

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G4G575-CC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G22342.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g575\4g22342.D\ECD1A.ch   Vial: 1
Signal #2 : C:\msdchem\1\DATA\4g575\4g22342.D\ECD2B.ch
Acq On    :  5 Sep 2012   9:36 am                    Operator: douglass
Sample    : CC525-10                                 Inst    : GC4G
Misc      : OP59299,g4g575,975,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 17:38:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.779 E6	3.0	102	-0.01	2.22- 2.28
2	A	alpha-BHC	5.063	4.484 E6	11.4	97	-0.01	2.68- 2.74
3	MA	gamma-BHC	4.868	4.164 E6	14.5	93	-0.02	2.97- 3.03
4	MA	Heptachlor	4.562	4.352 E6	4.6	104	-0.02	3.46- 3.54
5	B	beta-BHC	2.375	2.024 E6	14.8	91	-0.02	3.06- 3.12
6	B	delta-BHC	3.779	2.945 E6	22.1#	83	-0.02	3.25- 3.31
7	MB	Aldrin	4.315	4.083 E6	5.4	102	-0.02	3.82- 3.89
8	B	Heptachlor Epoxide	4.186	4.092 E6	2.2	104	-0.02	4.54- 4.64
9	B	gamma-Chlordane	4.251	3.977 E6	6.4	101	-0.02	4.72- 4.80
10	B	alpha-Chlordane	4.158	4.191 E6	-0.8	107	-0.02	4.89- 4.99
11	A	Endosulfan I	4.027	4.395 E6	-9.1	116	-0.02	5.10- 5.17
12	B	4,4'-DDE	3.295	3.340 E6	-1.4	111	-0.02	5.01- 5.08
13	MA	Dieldrin	4.082	3.990 E6	2.3	106	-0.02	5.43- 5.50
14	MA	Endrin	3.721	3.812 E6	-2.4	110	-0.02	5.76- 5.86
15	A	4,4'-DDD	2.934	2.884 E6	1.7	111	-0.03	5.90- 5.97
16	B	Endosulfan II	3.754	3.786 E6	-0.9	112	-0.02	6.11- 6.19
17	MA	4,4'-DDT	2.347	2.725 E6	-16.1	121	-0.02	6.30- 6.40
18	B	Endrin Aldehyde	2.736	2.863 E6	-4.6	107	-0.02	6.76- 6.84
19	B	Endosulfan Sulfate	3.038	2.792 E6	8.1	97	-0.02	7.47- 7.54
20	A	Methoxychlor	1.386	1.544 E6	-11.4	118	-0.02	7.10- 7.20
21		Mirex	3.462	3.508 E6	-1.3	105	-0.02	7.30- 7.40
22	B	Endrin Ketone	3.218	2.900 E6	9.9	92	-0.02	7.94- 8.02
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.964 E6	0.9	103	-0.01	9.69- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.180 E6	8.0	101	0.00	2.02- 2.08
2	A	alpha-BHC	4.662	4.469 E6	4.1	104	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.188 E6	5.5	101	0.00	2.80- 2.86
4	MA	Heptachlor	4.228	4.494 E6	-6.3	115	0.00	3.24- 3.30
5	B	beta-BHC	2.077	1.883 E6	9.3	95	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G4G575-CC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G22342.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	3.718	3.025 E6	18.6	88	0.00	3.17- 3.23
7	MB	Aldrin	4.349	4.030 E6	7.3	105	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	3.857 E6	2.7	103	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	3.864 E6	1.9	105	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	3.896 E6	-1.8	109	0.00	4.72- 4.78
11	A	Endosulfan I	3.637	3.623 E6	0.4	106	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.733 E6	-5.7	113	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	3.974 E6	-0.9	108	0.00	5.18- 5.24
14	MA	Endrin	3.526	3.837 E6	-8.8	116	0.00	5.62- 5.68
15	A	4,4'-DDD	2.743	2.644 E6	3.6	102	-0.01	5.83- 5.89
16	B	Endosulfan II	3.744	3.753 E6	-0.2	105	0.00	5.94- 6.00
17	MA	4,4'-DDT	2.401	2.236 E6	6.9	99	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	2.729 E6	-5.0	109	0.00	6.46- 6.52
19	B	Endosulfan Sulfate	2.903	2.835 E6	2.3	102	0.00	6.91- 6.97
20	A	Methoxychlor	1.371	1.486 E6	-8.4	111	0.00	7.47- 7.53
21		Mirex	3.120	3.233 E6	-3.6	106	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.221 E6	-2.3	102	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.753 E6	-1.6	105	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22257.D 4PST525.M Wed Sep 05 12:00:16 2012 RPT1

8.7.25

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G4G575-CC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G22353.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g575\4g22353.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g575\4g22353.D\ECD2B.ch
Acq On    :  5 Sep 2012   1:03 pm                    Operator: douglass
Sample    : CC525-25                                 Inst    : GC4G
Misc      : OP59484,g4g575,16.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 17:38:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	4.172 E6	-7.1	109	0.00	2.22- 2.28
2	A	alpha-BHC	5.063	5.469 E6	-8.0	105	-0.01	2.68- 2.74
3	MA	gamma-BHC	4.868	5.033 E6	-3.4	101	-0.01	2.98- 3.04
4	MA	Heptachlor	4.562	4.534 E6	0.6	100	-0.01	3.47- 3.54
5	B	beta-BHC	2.375	2.444 E6	-2.9	106	-0.01	3.06- 3.12
6	B	delta-BHC	3.779	3.838 E6	-1.6	93	-0.01	3.25- 3.31
7	MB	Aldrin	4.315	4.778 E6	-10.7	109	-0.02	3.82- 3.89
8	B	Heptachlor Epoxide	4.186	4.530 E6	-8.2	107	-0.02	4.55- 4.64
9	B	gamma-Chlordane	4.251	4.496 E6	-5.8	106	-0.02	4.73- 4.80
10	B	alpha-Chlordane	4.158	4.517 E6	-8.6	109	-0.02	4.89- 5.00
11	A	Endosulfan I	4.027	4.659 E6	-15.7	115	-0.02	5.10- 5.17
12	B	4,4'-DDE	3.295	3.010 E6	8.6	92	-0.02	5.01- 5.08
13	MA	Dieldrin	4.082	4.409 E6	-8.0	107	-0.02	5.44- 5.51
14	MA	Endrin	3.721	4.060 E6	-9.1	110	-0.02	5.77- 5.87
15	A	4,4'-DDD	2.934	2.905 E6	1.0	107	-0.02	5.91- 5.98
16	B	Endosulfan II	3.754	3.951 E6	-5.2	111	-0.02	6.12- 6.19
17	MA	4,4'-DDT	2.347	2.113 E6	10.0	83	-0.02	6.30- 6.41
18	B	Endrin Aldehyde	2.736	3.169 E6	-15.8	118	-0.02	6.77- 6.84
19	B	Endosulfan Sulfate	3.038	2.698 E6	11.2	90	-0.02	7.47- 7.55
20	A	Methoxychlor	1.386	1.226 E6	11.5	86	-0.02	7.11- 7.21
21		Mirex	3.462	3.608 E6	-4.2	110	-0.02	7.30- 7.40
22	B	Endrin Ketone	3.218	3.464 E6	-7.6	108	-0.02	7.94- 8.02
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.992 E6	-0.0	104	-0.01	9.69- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.514 E6	-1.7	114	0.00	2.03- 2.09
2	A	alpha-BHC	4.662	5.264 E6	-12.9	116	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.779 E6	-7.8	111	0.00	2.80- 2.86
4	MA	Heptachlor	4.228	4.408 E6	-4.3	110	0.00	3.24- 3.30
5	B	beta-BHC	2.077	2.080 E6	-0.1	109	0.00	2.88- 2.94

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G4G575-CC525
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 4G22353.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	3.718	3.555 E6	4.4	99	0.00	3.17- 3.23
7	MB	Aldrin	4.349	4.593 E6	-5.6	119	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	4.344 E6	-9.6	119	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	4.346 E6	-10.4	119	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	4.315 E6	-12.7	121	0.00	4.73- 4.79
11	A	Endosulfan I	3.637	4.096 E6	-12.6	121	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.846 E6	-8.9	115	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	4.555 E6	-15.6	121	0.00	5.18- 5.24
14	MA	Endrin	3.526	4.057 E6	-15.1	124	0.00	5.62- 5.68
15	A	4,4'-DDD	2.743	2.688 E6	2.0	108	0.00	5.84- 5.90
16	B	Endosulfan II	3.744	4.494 E6	-20.0#	128	0.00	5.95- 6.01
17	MA	4,4'-DDT	2.401	1.982 E6	17.5	83	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	3.058 E6	-17.6	127	0.00	6.47- 6.53
19	B	Endosulfan Sulfate	2.903	2.712 E6	6.6	101	0.00	6.92- 6.98
20	A	Methoxychlor	1.371	1.189 E6	13.3	88	0.00	7.47- 7.53
21		Mirex	3.120	3.310 E6	-6.1	118	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.453 E6	-9.7	116	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.860 E6	-5.5	116	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22304.D 4PST525.M Wed Sep 05 14:38:56 2012 RPT1

8.7.26

8

Initial Calibration Summary

Job Number: JB15113 **Sample:** G5G96-ICC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G3887.D
Project: 508 West 24th Street, Manhattan, NY

Response Factor Report GC5G

Method : C:\MSDCHEM\1\METHODS\5pst96.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Aug 20 08:58:13 2012
Response via : Initial Calibration

Calibration Files
5 =5g3885.D 10 =5g3886.D 25 =5g3887.D 50 =5g3888.D
100 =5g3889.D 1 =5g3883.D 2 =5g3884.D =

Compound	5	10	25	50	100	1	2	Avg	%RSD
1) Tetrachloro-	4.489	4.725	4.866	4.996	5.135	4.442	4.405	4.723 E6	6.11
2) alpha-BHC	6.573	7.040	7.572	7.952	8.274	6.834	6.551	7.257 E6	9.43
3) gamma-BHC	6.458	6.504	6.883	7.187	7.449	6.618	6.221	6.760 E6	6.45
4) Heptachlor	6.434	6.586	6.906	7.101	7.307	6.806	6.655	6.828 E6	4.45
5) beta-BHC	2.824	2.794	2.802	2.848	2.890	3.648	2.953	2.966 E6	10.32
6) delta-BHC	5.643	5.844	6.218	6.646	6.886	6.024	5.814	6.154 E6	7.48
7) Aldrin	6.157	6.242	6.595	6.882	7.116	6.273	5.841	6.444 E6	6.89
8) Heptachlor E	5.942	6.058	6.242	6.414	6.563	7.109	5.738	6.295 E6	7.23
9) gamma-Chlord	6.329	6.222	6.249	6.454	6.666	8.372	6.816	6.730 E6	11.24
10) alpha-Chlord	6.734	6.377	6.242	6.417	6.584	8.397	7.726	6.925 E6	11.77
11) Endosulfan I	5.580	5.680	5.827	5.983	6.115	5.905	5.537	5.804 E6	3.70
12) 4,4'-DDE	6.047	6.152	6.264	6.476	6.662	6.141	6.003	6.249 E6	3.84
13) Dieldrin	5.850	6.017	6.323	6.567	6.777	5.879	7.364	6.397 E6	8.62
14) Endrin	5.648	5.629	5.923	6.116	6.273	6.004	5.951	5.935 E6	3.94
15) 4,4'-DDD	5.030	5.035	5.273	5.559	5.687	5.225	4.984	5.256 E6	5.23
16) Endosulfan I	5.271	5.318	5.454	5.597	5.717	5.566	5.958	5.555 E6	4.27
17) 4,4'-DDT	3.720	4.000	4.431	4.631	4.894	3.387	3.619	4.097 E6	13.79
18) Endrin Aldeh	4.094	4.135	4.276	4.414	4.534	4.174	5.783	4.487 E6	13.21
19) Endosulfan S	4.443	4.479	4.617	4.789	4.880	5.320	4.408	4.705 E6	6.90
20) Methoxychlor	2.354	2.372	2.475	2.496	2.562	3.088	3.354	2.671 E6	14.59
21) Mirex	4.850	4.845	4.756	4.737	4.740	5.414	5.341	4.955 E6	5.92
22) Endrin Keton	5.815	5.731	5.960	6.099	6.288	5.992	5.896	5.969 E6	3.10
23) Toxaphene{A}				7.580				7.580 E4	0.00
24) Toxaphene{B}				1.266				1.266 E5	0.00
25) Toxaphene{C}				2.488				2.488 E5	0.00
26) Toxaphene{D}				1.413				1.413 E5	0.00
27) Toxaphene{E}				1.626				1.626 E5	0.00
28) Chlordane {A				3.771				3.771 E5	0.00
29) Chlordane {B				2.164				2.164 E5	0.00
30) Chlordane {C				8.775				8.775 E5	0.00
31) Chlordane {D				1.462				1.462 E6	0.00
32) Chlordane {E				1.982				1.982 E5	0.00
33) Decachlorobi	4.739	4.778	4.849	4.883	4.921	5.373	5.259	4.972 E6	4.93

Signal #2

1) Tetrachloro-	5.055	5.113	5.437	5.733	6.002	4.611	4.772	5.246 E6	9.62
2) alpha-BHC	6.457	6.917	7.942	8.931	9.726	6.194	6.119	7.470 E6	19.11
3) gamma-BHC	6.376	6.510	7.372	8.179	8.832	5.964	5.701	6.991 E6	16.80
4) Heptachlor	6.649	6.825	7.453	8.144	8.711	6.959	6.642	7.340 E6	11.01
5) beta-BHC	3.273	3.210	3.242	3.376	3.452	3.461	3.236	3.321 E6	3.21
6) delta-BHC	5.517	5.776	6.585	7.468	8.077	5.675	5.309	6.344 E6	16.84
7) Aldrin	5.874	6.137	6.905	7.696	8.324	5.857	5.765	6.651 E6	15.33
8) Heptachlor E	5.983	6.247	6.705	7.252	7.720	6.157	5.984	6.578 E6	10.32
9) gamma-Chlord	6.139	6.569	6.813	7.394	7.903	6.569	6.019	6.772 E6	9.94
10) alpha-Chlord	6.218	6.420	6.857	7.390	7.837	6.460	6.160	6.763 E6	9.40
11) Endosulfan I	5.493	5.662	6.132	6.653	7.094	5.560	5.443	6.005 E6	10.78

Initial Calibration Summary

Job Number: JB15113 **Sample:** G5G96-ICC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G3887.D
Project: 508 West 24th Street, Manhattan, NY

12) 4,4'-DDE	5.115	5.441	6.212	6.976	7.606	5.114	5.004	5.924	E6	17.45
13) Dieldrin	5.513	5.797	6.491	7.200	7.871	5.637	5.434	6.278	E6	15.07
14) Endrin	5.378	5.597	6.194	6.801	7.288	5.340	5.311	5.987	E6	13.28
15) 4,4'-DDD	4.755	4.977	5.483	6.116	6.558	4.678	4.701	5.324	E6	14.19
16) Endosulfan I	5.196	5.402	5.800	6.293	6.691	5.460	5.228	5.724	E6	9.99
17) 4,4'-DDT	3.329	3.621	4.315	4.912	5.487	2.737	2.722	3.875	E6	27.58
18) Endrin Aldeh	4.422	4.559	4.741	5.048	5.326	4.628	4.522	4.749	E6	6.83
19) Endosulfan S	4.624	4.730	5.029	5.412	5.725	4.736	4.482	4.963	E6	9.16
20) Methoxychlor	2.363	2.499	2.641	2.765	2.865	2.388	2.266	2.541	E6	8.77
21) Mirex	5.166	5.171	5.201	5.298	5.401	4.587	5.057	5.126	E6	5.10
22) Endrin Keton	5.470	5.812	6.385	6.903	7.289	5.084	5.129	6.011	E6	14.47
23) Toxaphene{A}				1.325				1.325	E5	0.00
24) Toxaphene{B}				1.815				1.815	E5	0.00
25) Toxaphene{C}				3.413				3.413	E5	0.00
26) Toxaphene{D}				1.837				1.837	E5	0.00
27) Toxaphene{E}				1.475				1.475	E5	0.00
28) Chlordane {A				4.297				4.297	E5	0.00
29) Chlordane {B				2.469				2.469	E5	0.00
30) Chlordane {C				9.604				9.604	E5	0.00
31) Chlordane {D				1.700				1.700	E6	0.00
32) Chlordane {E				2.081				2.081	E5	0.00
33) Decachlorobi	3.871	3.895	4.008	4.096	4.223	3.631	3.700	3.918	E6	5.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

5pst96.M Mon Aug 20 08:58:54 2012

Initial Calibration Verification

Job Number: JB15113 **Sample:** G5G96-ICV96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G3892.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g96\5g3892.D\ECD1A.ch    Vial: 12
Signal #2 : C:\msdchem\1\DATA\g5g96\5g3892.D\ECD2B.ch
Acq On    : 17 Aug 12   6:56 pm                      Operator: husamq
Sample    : icv96-25                                 Inst    : GC5G
Misc      : op58957,g5g96,15.0,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5pst96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Aug 20 08:58:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 SAB	Tetrachloro-m-xylene	4.723	4.685 E6	0.8	96	0.00	2.48- 2.54
2 A	alpha-BHC	7.257	8.404 E6	-15.8	111	0.00	3.06- 3.12
3 MA	gamma-BHC	6.760	7.640 E6	-13.0	111	0.00	3.42- 3.48
4 MA	Heptachlor	6.828	7.516 E6	-10.1	109	0.00	4.00- 4.06
5 B	beta-BHC	2.966	3.136 E6	-5.7	112	0.00	3.51- 3.57
6 B	delta-BHC	6.154	6.931 E6	-12.6	111	0.00	3.74- 3.80
7 MB	Aldrin	6.444	7.385 E6	-14.6	112	0.00	4.41- 4.47
8 B	Heptachlor Epoxide	6.295	6.922 E6	-10.0	111	0.00	5.24- 5.30
9 B	gamma-Chlordane	6.730	6.954 E6	-3.3	111	0.00	5.42- 5.48
10 B	alpha-Chlordane	6.925	6.762 E6	2.4	108	0.00	5.62- 5.68
11 A	Endosulfan I	5.804	6.479 E6	-11.6	111	0.00	5.84- 5.90
12 B	4,4'-DDE	6.249	7.006 E6	-12.1	112	0.00	5.71- 5.77
13 MA	Dieldrin	6.397	7.059 E6	-10.3	112	0.00	6.20- 6.26
14 MA	Endrin	5.935	6.204 E6	-4.5	105	0.00	6.57- 6.63
15 A	4,4'-DDD	5.256	5.994 E6	-14.0	114	0.00	6.65- 6.71
16 B	Endosulfan II	5.555	6.025 E6	-8.5	110	0.00	6.93- 6.99
17 MA	4,4'-DDT	4.097	4.672 E6	-14.0	105	0.00	7.11- 7.17
18 B	Endrin Aldehyde	4.487	4.500 E6	-0.3	105	0.00	7.62- 7.68
19 B	Endosulfan Sulfate	4.705	5.238 E6	-11.3	113	0.00	8.37- 8.43
20 A	Methoxychlor	2.671	2.612 E6	2.2	106	0.00	7.92- 7.98
22 B	Endrin Ketone	5.969	6.402 E6	-7.3	107	0.00	8.86- 8.92
33 SA	Decachlorobiphenyl	4.972	4.633 E6	6.8	96	0.00	10.40-10.46

***** Signal #2 *****

1 SAB	Tetrachloro-m-xylene	5.246	5.216 E6	0.6	96	0.00	2.25- 2.31
2 A	alpha-BHC	7.470	8.844 E6	-18.4	111	0.00	2.83- 2.89
3 MA	gamma-BHC	6.991	8.272 E6	-18.3	112	0.00	3.21- 3.27
4 MA	Heptachlor	7.340	8.144 E6	-11.0	109	0.00	3.74- 3.80
5 B	beta-BHC	3.321	3.612 E6	-8.8	111	0.00	3.29- 3.35
6 B	delta-BHC	6.344	7.398 E6	-16.6	112	0.00	3.64- 3.70
7 MB	Aldrin	6.651	7.778 E6	-16.9	113	0.00	4.15- 4.21
8 B	Heptachlor Epoxide	6.578	7.447 E6	-13.2	111	0.00	4.90- 4.96
9 B	gamma-Chlordane	6.772	7.573 E6	-11.8	111	0.00	5.17- 5.23
10 B	alpha-Chlordane	6.763	7.423 E6	-9.8	108	0.00	5.38- 5.44
11 A	Endosulfan I	6.005	6.823 E6	-13.6	111	0.00	5.47- 5.53
12 B	4,4'-DDE	5.924	6.993 E6	-18.0	113	0.00	5.63- 5.69
13 MA	Dieldrin	6.278	7.358 E6	-17.2	113	0.00	5.88- 5.94
14 MA	Endrin	5.987	6.503 E6	-8.6	105	0.00	6.35- 6.41
15 A	4,4'-DDD	5.324	6.323 E6	-18.8	115	0.00	6.54- 6.60
16 B	Endosulfan II	5.724	6.530 E6	-14.1	113	0.00	6.68- 6.74

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G5G96-ICV96
Lab FileID: 5G3892.D

17	MA	4,4'-DDT	3.875	4.647 E6	-19.9	108	0.00	7.05- 7.11
18	B	Endrin Aldehyde	4.749	5.047 E6	-6.3	106	0.00	7.23- 7.29
19	B	Endosulfan Sulfate	4.963	5.662 E6	-14.1	113	0.00	7.69- 7.75
20	A	Methoxychlor	2.541	2.840 E6	-11.8	108	0.00	8.23- 8.29
22	B	Endrin Ketone	6.011	7.163 E6	-19.2	112	0.00	8.60- 8.66
33	SA	Decachlorobiphenyl	3.918	3.887 E6	0.8	97	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3887.D 5pst96.M Mon Aug 20 08:59:04 2012

8.7.28

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G5G96-ICV96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G3893.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g96\5g3893.D\ECD1A.ch    Vial: 13
Signal #2 : C:\msdchem\1\DATA\g5g96\5g3893.D\ECD2B.ch
Acq On    : 17 Aug 12   7:12 pm                      Operator: husamq
Sample    : icv96-500                                Inst    : GC5G
Misc      : op58957,g5g96,15.0,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5pst96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Aug 20 08:58:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
23 L8	Toxaphene{A}	75.798	64.350 E3	15.1	85	0.00	6.14- 6.34
24 L8	Toxaphene{B}	126.619	103.133 E3	18.5	81	0.00	6.38- 6.58
25 L8	Toxaphene{C}	248.761	230.554 E3	7.3	93	0.00	6.85- 7.05
26 L8	Toxaphene{D}	141.305	125.184 E3	11.4	89	0.00	7.41- 7.61
27 L8	Toxaphene{E}	162.575	149.003 E3	8.3	92	0.00	8.13- 8.33
*****	Signal #2 *****						
23 L8	Toxaphene{A}	132.541	120.472 E3	9.1	91	0.00	5.78- 5.98
24 L8	Toxaphene{B}	181.499	164.236 E3	9.5	90	0.00	6.60- 6.80
25 L8	Toxaphene{C}	341.319	304.901 E3	10.7	89	0.00	6.75- 6.95
26 L8	Toxaphene{D}	183.676	174.180 E3	5.2	95	0.00	7.18- 7.38
27 L8	Toxaphene{E}	147.463	132.601 E3	10.1	90	0.00	8.04- 8.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3888.D 5pst96.M Mon Aug 20 09:21:51 2012

8.7.29

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** G5G96-ICV96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G3894.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g96\5g3894.D\ECD1A.ch    Vial: 14
Signal #2 : C:\msdchem\1\DATA\g5g96\5g3894.D\ECD2B.ch
Acq On    : 17 Aug 12   7:27 pm                      Operator: husamq
Sample    : icv96-500                                Inst    : GC5G
Misc      : op58957,g5g96,15.0,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5pst96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Aug 20 08:58:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
28	Chlordane {A}	377.131	326.531 E3	13.4	87	0.00	3.94- 4.14
29	Chlordane {B}	216.420	243.343 E3	-12.4	112	0.00	4.51- 4.71
30	Chlordane {C}	877.511	841.282 E3	4.1	96	0.00	5.35- 5.55
31	Chlordane {D}	1.462	1.321 E6	9.6	90	0.03	5.55- 5.75
32	Chlordane {E}	198.205	182.588 E3	7.9	92	0.00	6.75- 6.95
*****	Signal #2 *****						
28	Chlordane {A}	429.651	349.351 E3	18.7	81	0.00	3.67- 3.87
29	Chlordane {B}	246.946	250.632 E3	-1.5	101	0.00	4.26- 4.46
30	Chlordane {C}	960.384	886.840 E3	7.7	92	0.00	5.10- 5.30
31	Chlordane {D}	1.700	1.449 E6	14.8	85	0.07	5.31- 5.51
32	Chlordane {E}	208.127	200.393 E3	3.7	96	0.00	6.69- 6.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3888.D 5pst96.M Mon Aug 20 09:21:53 2012

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4470.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g109\5g4470.D\ECD1A.ch   Vial: 1
Signal #2 : C:\msdchem\1\DATA\g5g109\5g4470.D\ECD2B.ch
Acq On    :  5 Sep 12   8:51 am                      Operator: husamq
Sample    : cc96-25                                  Inst    : GC5G
Misc      : op59539,g5g109,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5PST96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri Aug 31 10:39:14 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	4.723	4.737 E6	-0.3	97	0.00	2.47- 2.53
2	A	alpha-BHC	7.257	7.175 E6	1.1	95	0.00	3.05- 3.11
3	MA	gamma-BHC	6.760	6.546 E6	3.2	95	0.00	3.41- 3.47
4	MA	Heptachlor	6.828	6.453 E6	5.5	93	0.00	3.99- 4.05
5	B	beta-BHC	2.966	2.872 E6	3.2	103	0.00	3.50- 3.56
6	B	delta-BHC	6.154	6.465 E6	-5.1	104	0.00	3.72- 3.78
7	MB	Aldrin	6.444	6.366 E6	1.2	97	0.00	4.39- 4.45
8	B	Heptachlor Epoxide	6.295	6.093 E6	3.2	98	0.00	5.22- 5.28
9	B	gamma-Chlordane	6.730	6.095 E6	9.4	98	0.00	5.40- 5.46
10	B	alpha-Chlordane	6.925	6.119 E6	11.6	98	0.00	5.60- 5.66
11	A	Endosulfan I	5.804	5.750 E6	0.9	99	0.00	5.81- 5.87
12	B	4,4'-DDE	6.249	6.060 E6	3.0	97	0.00	5.69- 5.75
13	MA	Dieldrin	6.397	6.186 E6	3.3	98	0.00	6.18- 6.24
14	MA	Endrin	5.935	5.910 E6	0.4	100	0.00	6.55- 6.61
15	A	4,4'-DDD	5.256	5.019 E6	4.5	95	0.00	6.63- 6.69
16	B	Endosulfan II	5.555	5.341 E6	3.9	98	0.00	6.91- 6.97
17	MA	4,4'-DDT	4.097	4.277 E6	-4.4	97	0.00	7.09- 7.15
18	B	Endrin Aldehyde	4.487	3.691 E6	17.7	86	0.00	7.60- 7.66
19	B	Endosulfan Sulfate	4.705	4.758 E6	-1.1	103	0.00	8.34- 8.40
20	A	Methoxychlor	2.671	2.379 E6	10.9	96	0.00	7.90- 7.96
21		Mirex	4.955	4.833 E6	2.5	102	0.00	8.16- 8.22
22	B	Endrin Ketone	5.969	5.674 E6	4.9	95	0.00	8.83- 8.89
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	4.972	5.126 E6	-3.1	106	0.00	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	5.246	5.985 E6	-14.1	110	0.00	2.24- 2.30
2	A	alpha-BHC	7.093	8.789 E6	-23.9#	111	0.00	2.82- 2.88
3	MA	gamma-BHC	6.991	8.153 E6	-16.6	111	0.00	3.20- 3.26
4	MA	Heptachlor	7.340	8.147 E6	-11.0	109	0.00	3.72- 3.78
5	B	beta-BHC	3.321	3.877 E6	-16.7	120	0.00	3.28- 3.34

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4470.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	6.055	7.730	E6	-27.7#	117	0.00	3.63- 3.69
7	MB	Aldrin	6.651	7.681	E6	-15.5	111	0.00	4.13- 4.19
8	B	Heptachlor Epoxide	6.578	7.371	E6	-12.1	110	0.00	4.88- 4.94
9	B	gamma-Chlordane	6.772	7.661	E6	-13.1	112	0.00	5.15- 5.21
10	B	alpha-Chlordane	6.763	7.729	E6	-14.3	113	0.00	5.36- 5.42
11	A	Endosulfan I	6.005	6.796	E6	-13.2	111	0.00	5.45- 5.51
12	B	4,4'-DDE	5.924	6.759	E6	-14.1	109	0.00	5.61- 5.67
13	MA	Dieldrin	6.278	7.225	E6	-15.1	111	0.00	5.86- 5.92
14	MA	Endrin	5.987	6.999	E6	-16.9	113	0.00	6.32- 6.38
15	A	4,4'-DDD	5.324	5.840	E6	-9.7	107	0.00	6.52- 6.58
16	B	Endosulfan II	5.724	6.562	E6	-14.6	113	0.00	6.66- 6.72
17	MA	4,4'-DDT	3.875	4.695	E6	-21.2#	109	0.00	7.02- 7.08
18	B	Endrin Aldehyde	4.749	5.554	E6	-17.0	117	0.00	7.20- 7.26
19	B	Endosulfan Sulfate	4.963	5.816	E6	-17.2	116	0.00	7.67- 7.73
20	A	Methoxychlor	2.541	2.943	E6	-15.8	111	0.00	8.20- 8.26
21		Mirex	5.126	6.102	E6	-19.0	117	0.00	8.50- 8.56
22	B	Endrin Ketone	6.011	6.973	E6	-16.0	109	0.00	8.57- 8.63
23	L8	Toxaphene{A}		----------NA----------					
24	L8	Toxaphene{B}		----------NA----------					
25	L8	Toxaphene{C}		----------NA----------					
26	L8	Toxaphene{D}		----------NA----------					
27	L8	Toxaphene{E}		----------NA----------					
28		Chlordane {A}		----------NA----------					
29		Chlordane {B}		----------NA----------					
30		Chlordane {C}		----------NA----------					
31		Chlordane {D}		----------NA----------					
32		Chlordane {E}		----------NA----------					
33	SA	Decachlorobiphenyl	3.918	5.088	E6	-29.9#	127	0.00	10.50-10.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3887.D 5PST96.M Wed Sep 05 14:37:29 2012

8.7.31

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4481.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g109\5g4481.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\g5g109\5g4481.D\ECD2B.ch
Acq On    :  5 Sep 12  11:55 am                      Operator: husamq
Sample    : cc96-10                                  Inst    : GC5G
Misc      : op59496,g5g109,930,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5PST96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri Aug 31 10:39:14 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	4.723	4.852 E6	-2.7	103	0.00	2.48- 2.54
2	A	alpha-BHC	7.257	6.635 E6	8.6	94	0.01	3.06- 3.12
3	MA	gamma-BHC	6.760	6.205 E6	8.2	95	0.00	3.42- 3.48
4	MA	Heptachlor	6.828	6.081 E6	10.9	92	0.01	4.01- 4.07
5	B	beta-BHC	2.966	3.000 E6	-1.1	107	0.01	3.51- 3.57
6	B	delta-BHC	6.154	5.911 E6	3.9	101	0.01	3.74- 3.80
7	MB	Aldrin	6.444	6.107 E6	5.2	98	0.01	4.41- 4.47
8	B	Heptachlor Epoxide	6.295	5.981 E6	5.0	99	0.00	5.24- 5.30
9	B	gamma-Chlordane	6.730	5.929 E6	11.9	95	0.00	5.42- 5.48
10	B	alpha-Chlordane	6.925	6.047 E6	12.7	95	0.00	5.62- 5.68
11	A	Endosulfan I	5.804	5.820 E6	-0.3	102	0.00	5.83- 5.89
12	B	4,4'-DDE	6.249	5.965 E6	4.5	97	0.00	5.71- 5.77
13	MA	Dieldrin	6.397	6.061 E6	5.3	101	0.00	6.20- 6.26
14	MA	Endrin	5.935	4.894 E6	17.5	87	0.00	6.57- 6.63
15	A	4,4'-DDD	5.256	4.715 E6	10.3	94	0.01	6.65- 6.71
16	B	Endosulfan II	5.555	5.294 E6	4.7	100	0.00	6.92- 6.98
17	MA	4,4'-DDT	4.097	3.891 E6	5.0	97	0.00	7.11- 7.17
18	B	Endrin Aldehyde	4.487	4.491 E6	-0.1	109	0.00	7.61- 7.67
19	B	Endosulfan Sulfate	4.705	4.756 E6	-1.1	106	0.00	8.35- 8.41
20	A	Methoxychlor	2.671	2.287 E6	14.4	96	0.00	7.92- 7.98
21		Mirex	4.955	5.036 E6	-1.6	104	0.00	8.17- 8.23
22	B	Endrin Ketone	5.969	5.637 E6	5.6	98	0.00	8.84- 8.90
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	4.972	5.220 E6	-5.0	109	0.00	10.39-10.45

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	5.246	5.716 E6	-9.0	112	0.00	2.24- 2.30
2	A	alpha-BHC	7.093	7.260 E6	-2.4	105	0.00	2.82- 2.88
3	MA	gamma-BHC	6.991	7.015 E6	-0.3	108	0.00	3.20- 3.26
4	MA	Heptachlor	7.340	7.117 E6	3.0	104	0.00	3.72- 3.78
5	B	beta-BHC	3.321	3.813 E6	-14.8	119	0.00	3.28- 3.34

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4481.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	6.055	6.648 E6	-9.8	115	0.00	3.63- 3.69
7	MB	Aldrin	6.651	6.706 E6	-0.8	109	0.00	4.13- 4.19
8	B	Heptachlor Epoxide	6.578	6.779 E6	-3.1	109	0.00	4.88- 4.94
9	B	gamma-Chlordane	6.772	6.973 E6	-3.0	106	0.00	5.15- 5.21
10	B	alpha-Chlordane	6.763	7.098 E6	-5.0	111	0.00	5.36- 5.42
11	A	Endosulfan I	6.005	6.272 E6	-4.4	111	0.00	5.45- 5.51
12	B	4,4'-DDE	5.924	5.806 E6	2.0	107	0.00	5.61- 5.67
13	MA	Dieldrin	6.278	6.583 E6	-4.9	114	0.00	5.86- 5.92
14	MA	Endrin	5.987	5.496 E6	8.2	98	0.00	6.32- 6.38
15	A	4,4'-DDD	5.324	5.133 E6	3.6	103	0.00	6.52- 6.58
16	B	Endosulfan II	5.724	6.083 E6	-6.3	113	0.00	6.66- 6.72
17	MA	4,4'-DDT	3.875	3.913 E6	-1.0	108	0.00	7.02- 7.08
18	B	Endrin Aldehyde	4.749	5.519 E6	-16.2	121	0.00	7.21- 7.27
19	B	Endosulfan Sulfate	4.963	5.451 E6	-9.8	115	0.00	7.67- 7.73
20	A	Methoxychlor	2.541	2.607 E6	-2.6	104	0.00	8.20- 8.26
21		Mirex	5.126	6.323 E6	-23.4#	122	0.00	8.50- 8.56
22	B	Endrin Ketone	6.011	6.711 E6	-11.6	115	0.00	8.57- 8.63
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	3.918	5.091 E6	-29.9#	131	0.00	10.50-10.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3886.D 5PST96.M Wed Sep 05 14:35:29 2012

8.7.32

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4512.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g109\5g4512.D\ECD1A.ch   Vial: 44
Signal #2 : C:\msdchem\1\DATA\g5g109\5g4512.D\ECD2B.ch
Acq On    :  5 Sep 12   9:24 pm                      Operator: husamq
Sample    : cc96-25                                  Inst    : GC5G
Misc      : op59382,g5g109,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5PST96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Aug 20 08:56:54 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	4.723	4.891 E6	-3.6	101	0.00	2.47- 2.53
2	A	alpha-BHC	7.257	7.246 E6	0.2	96	-0.01	3.05- 3.11
3	MA	gamma-BHC	6.760	6.634 E6	1.9	96	-0.01	3.41- 3.47
4	MA	Heptachlor	6.828	6.501 E6	4.8	94	-0.01	3.99- 4.05
5	B	beta-BHC	2.966	2.973 E6	-0.2	106	-0.01	3.50- 3.56
6	B	delta-BHC	6.154	6.667 E6	-8.3	107	-0.01	3.72- 3.78
7	MB	Aldrin	6.444	6.518 E6	-1.1	99	-0.02	4.39- 4.45
8	B	Heptachlor Epoxide	6.295	6.149 E6	2.3	99	-0.02	5.23- 5.29
9	B	gamma-Chlordane	6.730	6.198 E6	7.9	99	-0.02	5.41- 5.47
10	B	alpha-Chlordane	6.925	6.206 E6	10.4	99	-0.02	5.60- 5.66
11	A	Endosulfan I	5.804	5.917 E6	-1.9	102	-0.02	5.82- 5.88
12	B	4,4'-DDE	6.249	6.053 E6	3.1	97	-0.02	5.70- 5.76
13	MA	Dieldrin	6.397	6.353 E6	0.7	100	-0.02	6.18- 6.24
14	MA	Endrin	5.935	5.595 E6	5.7	94	-0.02	6.55- 6.61
15	A	4,4'-DDD	5.256	5.048 E6	4.0	96	-0.02	6.64- 6.70
16	B	Endosulfan II	5.555	5.516 E6	0.7	101	-0.02	6.91- 6.97
17	MA	4,4'-DDT	4.097	4.274 E6	-4.3	96	-0.02	7.09- 7.15
18	B	Endrin Aldehyde	4.487	4.684 E6	-4.4	110	-0.02	7.60- 7.66
19	B	Endosulfan Sulfate	4.705	5.004 E6	-6.4	108	-0.03	8.34- 8.40
20	A	Methoxychlor	2.671	2.299 E6	13.9	93	-0.02	7.91- 7.97
21		Mirex	4.955	5.030 E6	-1.5	106	-0.02	8.16- 8.22
22	B	Endrin Ketone	5.969	6.263 E6	-4.9	105	-0.02	8.84- 8.90
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	4.972	5.083 E6	-2.2	105	-0.02	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	5.246	6.101 E6	-16.3	112	0.00	2.24- 2.30
2	A	alpha-BHC	7.093	8.558 E6	-20.7#	108	-0.01	2.82- 2.88
3	MA	gamma-BHC	6.991	8.065 E6	-15.4	109	-0.01	3.20- 3.26
4	MA	Heptachlor	7.340	8.108 E6	-10.5	109	-0.02	3.72- 3.78
5	B	beta-BHC	3.321	3.939 E6	-18.6	122	-0.01	3.28- 3.34

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4512.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	6.055	7.925 E6	-30.9#	120	-0.02	3.63- 3.69
7	MB	Aldrin	6.651	7.677 E6	-15.4	111	-0.02	4.13- 4.19
8	B	Heptachlor Epoxide	6.578	7.524 E6	-14.4	112	-0.02	4.88- 4.94
9	B	gamma-Chlordane	6.772	7.705 E6	-13.8	113	-0.02	5.15- 5.21
10	B	alpha-Chlordane	6.763	7.789 E6	-15.2	114	-0.02	5.36- 5.42
11	A	Endosulfan I	6.005	6.888 E6	-14.7	112	-0.02	5.45- 5.51
12	B	4,4'-DDE	5.924	6.631 E6	-11.9	107	-0.02	5.61- 5.67
13	MA	Dieldrin	6.278	7.260 E6	-15.6	112	-0.02	5.85- 5.91
14	MA	Endrin	5.987	6.522 E6	-8.9	105	-0.02	6.32- 6.38
15	A	4,4'-DDD	5.324	5.816 E6	-9.2	106	-0.02	6.52- 6.58
16	B	Endosulfan II	5.724	6.684 E6	-16.8	115	-0.02	6.66- 6.72
17	MA	4,4'-DDT	3.875	4.612 E6	-19.0	107	-0.02	7.02- 7.08
18	B	Endrin Aldehyde	4.749	5.827 E6	-22.7#	123	-0.03	7.20- 7.26
19	B	Endosulfan Sulfate	4.963	5.981 E6	-20.5#	119	-0.03	7.67- 7.73
20	A	Methoxychlor	2.541	2.713 E6	-6.8	103	-0.02	8.20- 8.26
21		Mirex	5.126	6.308 E6	-23.1#	121	-0.03	8.50- 8.56
22	B	Endrin Ketone	6.011	7.724 E6	-28.5#	121	-0.03	8.57- 8.63
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	3.918	4.812 E6	-22.8#	120	-0.02	10.50-10.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3887.D 5PST96.M Thu Sep 06 11:39:07 2012

8.7.33

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4522.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\g5g109\5g4522.D\ECD1A.ch   Vial: 54
Signal #2 : C:\msdchem\1\DATA\g5g109\5g4522.D\ECD2B.ch
Acq On    :  6 Sep 12  12:13 am                      Operator: husamq
Sample    : cc96-10                                  Inst    : GC5G
Misc      : op59496,g5g109,880,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\5PST96.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Aug 20 08:56:54 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	4.723	5.155 E6	-9.1	109	0.00	2.47- 2.53
2	A	alpha-BHC	7.257	7.083 E6	2.4	101	0.00	3.05- 3.11
3	MA	gamma-BHC	6.760	6.607 E6	2.3	102	0.00	3.41- 3.47
4	MA	Heptachlor	6.828	6.489 E6	5.0	99	0.00	3.99- 4.05
5	B	beta-BHC	2.966	3.114 E6	-5.0	111	0.00	3.50- 3.56
6	B	delta-BHC	6.154	6.454 E6	-4.9	110	0.00	3.73- 3.79
7	MB	Aldrin	6.444	6.450 E6	-0.1	103	-0.01	4.39- 4.45
8	B	Heptachlor Epoxide	6.295	6.157 E6	2.2	102	-0.01	5.23- 5.29
9	B	gamma-Chlordane	6.730	6.251 E6	7.1	100	-0.01	5.41- 5.47
10	B	alpha-Chlordane	6.925	6.362 E6	8.1	100	-0.02	5.60- 5.66
11	A	Endosulfan I	5.804	6.074 E6	-4.7	107	-0.02	5.82- 5.88
12	B	4,4'-DDE	6.249	6.249 E6	0.0	102	-0.01	5.70- 5.76
13	MA	Dieldrin	6.397	6.240 E6	2.5	104	-0.02	6.18- 6.24
14	MA	Endrin	5.935	5.081 E6	14.4	90	-0.02	6.55- 6.61
15	A	4,4'-DDD	5.256	4.915 E6	6.5	98	-0.02	6.64- 6.70
16	B	Endosulfan II	5.555	5.529 E6	0.5	104	-0.02	6.91- 6.97
17	MA	4,4'-DDT	4.097	3.888 E6	5.1	97	-0.02	7.09- 7.15
18	B	Endrin Aldehyde	4.487	4.994 E6	-11.3	121	-0.02	7.60- 7.66
19	B	Endosulfan Sulfate	4.705	5.130 E6	-9.0	115	-0.02	8.35- 8.41
20	A	Methoxychlor	2.671	2.288 E6	14.3	96	-0.02	7.91- 7.97
21		Mirex	4.955	5.233 E6	-5.6	108	-0.02	8.17- 8.23
22	B	Endrin Ketone	5.969	6.415 E6	-7.5	112	-0.02	8.84- 8.90
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	4.972	5.243 E6	-5.5	110	-0.02	10.38-10.44

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	5.246	6.277 E6	-19.7	123	0.00	2.24- 2.30
2	A	alpha-BHC	7.093	8.023 E6	-13.1	116	0.00	2.82- 2.88
3	MA	gamma-BHC	6.991	7.707 E6	-10.2	118	0.00	3.20- 3.26
4	MA	Heptachlor	7.340	7.769 E6	-5.8	114	-0.01	3.72- 3.78
5	B	beta-BHC	3.321	4.781 E6	-44.0#	149	0.00	3.29- 3.35

Continuing Calibration Summary

Job Number: JB15113 **Sample:** G5G109-CC96
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** 5G4522.D
Project: 508 West 24th Street, Manhattan, NY

6	B	delta-BHC	6.055	7.389 E6	-22.0#	128	-0.01	3.63- 3.69
7	MB	Aldrin	6.651	7.089 E6	-6.6	116	-0.01	4.13- 4.19
8	B	Heptachlor Epoxide	6.578	7.713 E6	-17.3	123	-0.02	4.89- 4.95
9	B	gamma-Chlordane	6.772	7.426 E6	-9.7	113	-0.02	5.16- 5.22
10	B	alpha-Chlordane	6.763	7.759 E6	-14.7	121	-0.02	5.37- 5.43
11	A	Endosulfan I	6.005	6.725 E6	-12.0	119	-0.02	5.45- 5.51
12	B	4,4'-DDE	5.924	6.157 E6	-3.9	113	-0.02	5.61- 5.67
13	MA	Dieldrin	6.278	6.899 E6	-9.9	119	-0.02	5.86- 5.92
14	MA	Endrin	5.987	5.707 E6	4.7	102	-0.02	6.32- 6.38
15	A	4,4'-DDD	5.324	5.585 E6	-4.9	112	-0.02	6.52- 6.58
16	B	Endosulfan II	5.724	6.483 E6	-13.3	120	-0.02	6.66- 6.72
17	MA	4,4'-DDT	3.875	3.979 E6	-2.7	110	-0.02	7.02- 7.08
18	B	Endrin Aldehyde	4.749	6.053 E6	-27.5#	133	-0.02	7.20- 7.26
19	B	Endosulfan Sulfate	4.963	6.093 E6	-22.8#	129	-0.03	7.67- 7.73
20	A	Methoxychlor	2.541	2.628 E6	-3.4	105	-0.03	8.20- 8.26
21		Mirex	5.126	6.530 E6	-27.4#	126	-0.03	8.50- 8.56
22	B	Endrin Ketone	6.011	7.655 E6	-27.3#	132	-0.03	8.57- 8.63
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	3.918	5.096 E6	-30.1#	131	-0.02	10.50-10.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5g3886.D 5PST96.M Thu Sep 06 11:40:37 2012

8.7.34

8

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICC4548
Lab FileID: EF111306.D

Response Factor Report gcef

Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 09:06:55 2012
Response via : Initial Calibration

Calibration Files
3000=EF111304.D 2000=EF111305.D 1000=EF111306.D 500 =EF111307.D
250 =EF111308.D 50 =EF111309.D

	Compound	3000	2000	1000	500	250	50	Avg		%RSD
1) S	Tetrachloro-m-xylen	9.118	8.400	7.757	7.559	7.279	7.378	7.915	E3	8.98
2)	AR1221-A			1.466				1.466	E2	0.00
3)	AR1221-B			1.426				1.426	E2	0.00
4)	AR1221-C			4.871				4.871	E2	0.00
5)	AR1221-D			1.203				1.203	E2	0.00
6)	AR1221-E			6.481				6.481	E1	0.00
7)	AR1232-A			3.976				3.976	E2	0.00
8)	AR1232-B			2.417				2.417	E2	0.00
9)	AR1232-C			4.176				4.176	E2	0.00
10)	AR1232-D			2.733				2.733	E2	0.00
11)	AR1232-E			1.463				1.463	E2	0.00
12)	AR1242-A			4.423				4.423	E2	0.00
13)	AR1242-B			8.536				8.536	E2	0.00
14)	AR1242-C			6.020				6.020	E2	0.00
15)	AR1242-D			3.302				3.302	E2	0.00
16)	AR1242-E			5.319				5.319	E2	0.00
17)	AR1248-A			2.111				2.111	E2	0.00
18)	AR1248-B			4.720				4.720	E2	0.00
19)	AR1248-C			9.005				9.005	E2	0.00
20)	AR1248-D			4.952				4.952	E2	0.00
21)	AR1248-E			8.973				8.973	E2	0.00
22)	AR1248-F			7.964				7.964	E2	0.00
23)	AR1248-G			2.383				2.383	E2	0.00
24)	AR1254-A			4.294				4.294	E2	0.00
25)	AR1254-B			1.189				1.189	E3	0.00
26)	AR1254-C			5.719				5.719	E2	0.00
27)	AR1254-D			8.144				8.144	E2	0.00
28)	AR1254-E			5.756				5.756	E2	0.00
29)	AR1254-F			5.516				5.516	E2	0.00
30)	AR1254-G			7.064				7.064	E2	0.00
31)	AR1262-A			5.460				5.460	E2	0.00
32)	AR1262-B			7.402				7.402	E2	0.00
33)	AR1262-C			6.341				6.341	E2	0.00
34)	AR1262-D			1.365				1.365	E3	0.00
35)	AR1262-E			5.444				5.444	E2	0.00
36)	AR1268-A			1.518				1.518	E3	0.00
37)	AR1268-B			1.891				1.891	E3	0.00
38)	AR1268-C			1.399				1.399	E3	0.00
39)	AR1268-D			5.602				5.602	E2	0.00
40)	AR1268-E			4.412				4.412	E3	0.00
41)	AR1016-A	3.162	3.129	3.199	3.265	3.272	3.219	3.208	E2	1.75
42)	AR1016-B	4.363	4.431	4.691	4.936	5.168	6.036	4.937	E2	12.51
43)	AR1016-C	9.686	9.380	9.212	9.029	8.712	8.529	9.091	E2	4.70
44)	AR1016-D	6.145	6.238	6.464	6.725	6.647	6.908	6.521	E2	4.51
45)	AR1016-E	3.566	3.514	3.524	3.519	3.309	3.337	3.462	E2	3.16
46)	AR1260-A	9.461	9.353	9.726	9.106	9.249	8.736	9.272	E2	3.62
47)	AR1260-B	4.519	4.523	4.433	4.765	4.626	5.025	4.649	E2	4.66

Initial Calibration Summary

Job Number: JB15113 **Sample:** GEF4548-ICC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF111306.D
Project: 508 West 24th Street, Manhattan, NY

48)		AR1260-C	4.463	4.417	4.555	4.436	4.488	4.558	4.486	E2	1.33
49)		AR1260-D	1.083	1.059	1.088	1.024	1.024	1.002	1.047	E3	3.37
50)		AR1260-E	1.066	1.021	1.019	1.002	0.988	0.983	1.013	E3	2.98
51)	S	Decachlorobiphenyl	1.277	1.282	1.401	1.483	1.415	1.445	1.384	E4	6.20

Signal #2

1)	S	Tetrachloro-m-xylen	1.216	1.116	1.036	1.006	0.982	0.981	1.056	E4	8.81
2)		AR1221-A			1.908				1.908	E2	0.00
3)		AR1221-B			1.715				1.715	E2	0.00
4)		AR1221-C			5.492				5.492	E2	0.00
5)		AR1221-D			1.276				1.276	E2	0.00
6)		AR1221-E			9.265				9.265	E1	0.00
7)		AR1232-A			4.390				4.390	E2	0.00
8)		AR1232-B			4.257				4.257	E2	0.00
9)		AR1232-C			5.802				5.802	E2	0.00
10)		AR1232-D			2.564				2.564	E2	0.00
11)		AR1232-E			1.595				1.595	E2	0.00
12)		AR1242-A			6.368				6.368	E2	0.00
13)		AR1242-B			1.158				1.158	E3	0.00
14)		AR1242-C			5.124				5.124	E2	0.00
15)		AR1242-D			3.464				3.464	E2	0.00
16)		AR1242-E			3.471				3.471	E2	0.00
17)		AR1248-A			2.677				2.677	E2	0.00
18)		AR1248-B			6.629				6.629	E2	0.00
19)		AR1248-C			4.304				4.304	E2	0.00
20)		AR1248-D			5.391				5.391	E2	0.00
21)		AR1248-E			8.946				8.946	E2	0.00
22)		AR1248-F			6.545				6.545	E2	0.00
23)		AR1248-G			3.788				3.788	E2	0.00
24)		AR1254-A			8.769				8.769	E2	0.00
25)		AR1254-B			9.128				9.128	E2	0.00
26)		AR1254-C			5.443				5.443	E2	0.00
27)		AR1254-D			1.290				1.290	E3	0.00
28)		AR1254-E			1.066				1.066	E3	0.00
29)		AR1254-F			6.821				6.821	E2	0.00
30)		AR1254-G			1.153				1.153	E3	0.00
31)		AR1262-A			9.816				9.816	E2	0.00
32)		AR1262-B			1.573				1.573	E3	0.00
33)		AR1262-C			1.213				1.213	E3	0.00
34)		AR1262-D			2.507				2.507	E3	0.00
35)		AR1262-E			1.664				1.664	E3	0.00
36)		AR1268-A			3.325				3.325	E3	0.00
37)		AR1268-B			3.224				3.224	E3	0.00
38)		AR1268-C			2.624				2.624	E3	0.00
39)		AR1268-D			9.251				9.251	E2	0.00
40)		AR1268-E			7.190				7.190	E3	0.00
41)		AR1016-A	3.351	3.344	3.434	3.452	3.504	3.012	3.349	E2	5.27
42)		AR1016-B	6.457	6.518	6.811	6.950	7.110	7.445	6.882	E2	5.41
43)		AR1016-C	1.247	1.235	1.253	1.254	1.240	1.210	1.240	E3	1.32
44)		AR1016-D	5.473	5.430	5.684	5.621	5.554	5.332	5.516	E2	2.35
45)		AR1016-E	3.616	3.608	3.686	3.745	3.726	3.704	3.681	E2	1.55
46)		AR1260-A	1.657	1.612	1.561	1.493	1.461	1.282	1.511	E3	8.85
47)		AR1260-B	9.236	9.042	8.916	8.756	8.661	7.958	8.761	E2	5.06
48)		AR1260-C	8.232	8.033	7.933	7.850	7.796	7.500	7.891	E2	3.11
49)		AR1260-D	2.036	1.971	1.867	1.779	1.755	1.519	1.821	E3	10.07
50)		AR1260-E	1.273	1.236	1.209	1.122	1.119	1.050	1.168	E3	7.23
51)	S	Decachlorobiphenyl	1.791	1.763	1.777	1.771	1.753	1.669	1.754	E4	2.48

(#) = Out of Range

8.7.35

8

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICC4548
Lab FileID: EF111306.D

PCB4548.M Thu Aug 09 09:36:35 2012 GCEF

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICV4548
Lab FileID: EF111314.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111314.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111314.D\ECD2B.CH
Acq On    :  8 Aug 2012   8:53 pm                    Operator: gwend
Sample    : icv4548-1000                             Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
41	AR1016-A	320.776	331.292	-3.3	104	0.00	3.71- 3.77
42	AR1016-B	493.742	520.801	-5.5	111	0.00	4.29- 4.35
43	AR1016-C	909.129	1028.682	-13.2	112	0.00	5.09- 5.15
44	AR1016-D	652.126	724.262	-11.1	112	0.00	5.71- 5.77
45	AR1016-E	346.173	384.178	-11.0	109	0.00	6.10- 6.16
46	AR1260-A	927.170	959.375	-3.5	99	0.00	9.72- 9.78
47	AR1260-B	464.864	483.478	-4.0	109	0.00	9.97-10.03
48	AR1260-C	448.615	462.631	-3.1	102	0.00	10.49-10.55
49	AR1260-D	1.047	1.109 E3	-5.9	102	0.00	11.16-11.22
50	AR1260-E	1.013	1.036 E3	-2.3	102	0.00	11.77-11.83

***** Signal #2 *****

41	AR1016-A	334.935	364.072	-8.7	106	0.00	5.19- 5.25
42	AR1016-B	688.174	749.602	-8.9	110	0.00	6.01- 6.07
43	AR1016-C	1.240	1.398 E3	-12.7	112	0.00	6.95- 7.01
44	AR1016-D	551.557	617.536	-12.0	109	0.00	7.24- 7.30
45	AR1016-E	368.077	401.427	-9.1	109	0.00	8.23- 8.29
46	AR1260-A	1.511	1.649 E3	-9.1	106	0.00	12.29-12.35
47	AR1260-B	876.145	937.722	-7.0	105	0.00	12.50-12.56
48	AR1260-C	789.079	835.393	-5.9	105	0.00	13.16-13.22
49	AR1260-D	1.821	2.004 E3	-10.0	107	0.00	13.73-13.79
50	AR1260-E	1.168	1.259 E3	-7.8	104	0.00	14.55-14.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:32:55 2012 GCEF

8.7.36

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICV4548
Lab FileID: EF111315.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111315.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111315.D\ECD2B.CH
Acq On    :  8 Aug 2012   9:17 pm                    Operator: gwend
Sample    : icv4548-1000                             Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
2	AR1221-A	146.617	139.556	4.8	95	0.00	2.43- 2.63
3	AR1221-B	142.561	114.893	19.4	81	0.00	3.36- 3.56
4	AR1221-C	487.111	496.983	-2.0	102	0.00	3.64- 3.84
5	AR1221-D	120.269	107.292	10.8	89	0.00	4.45- 4.65
6	AR1221-E	64.813	68.426	-5.6	106	0.00	5.02- 5.22
*****	Signal #2 *****						
2	AR1221-A	190.776	174.575	8.5	92	0.00	3.40- 3.60
3	AR1221-B	171.493	171.487	0.0	100	0.00	4.73- 4.93
4	AR1221-C	549.154	557.927	-1.6	102	0.00	5.12- 5.32
5	AR1221-D	127.598	125.116	1.9	98	0.00	6.06- 6.26
6	AR1221-E	92.650	85.913	7.3	93	0.00	6.88- 7.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:00 2012 GCEF

8.7.37

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** GEF4548-ICV4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF111316.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111316.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111316.D\ECD2B.CH
Acq On    :  8 Aug 2012   9:41 pm                    Operator: gwend
Sample    : icv4548-1000                             Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
7	AR1232-A	397.596	379.468	4.6	95	0.00	3.65- 3.85
8	AR1232-B	241.682	220.247	8.9	91	0.00	4.22- 4.42
9	AR1232-C	417.585	365.479	12.5	88	0.00	5.02- 5.22
24	AR1254-A	429.376	373.224	13.1	87	0.00	6.76- 6.96
25	AR1254-B	1.189	1.326 E3	-11.5	112	0.00	7.28- 7.48
26	AR1254-C	571.871	586.263	-2.5	103	0.00	7.84- 8.04
27	AR1254-D	814.425	793.125	2.6	97	0.00	8.09- 8.29
28	AR1254-E	575.557	644.029	-11.9	112	0.00	8.68- 8.88
30	AR1254-G	706.401	726.339	-2.8	103	0.00	9.65- 9.85

***** Signal #2 *****

7	AR1232-A	438.993	438.468	0.1	100	0.00	5.13- 5.33
8	AR1232-B	425.725	395.426	7.1	93	0.00	5.94- 6.14
9	AR1232-C	580.238	538.500	7.2	93	0.00	6.88- 7.08
24	AR1254-A	876.851	964.415	-10.0	110	0.00	9.09- 9.29
25	AR1254-B	912.784	891.033	2.4	98	0.00	9.51- 9.71
26	AR1254-C	544.250	509.837	6.3	94	0.00	10.26-10.46
27	AR1254-D	1.290	1.202 E3	6.8	93	0.00	10.52-10.72
28	AR1254-E	1.066	1.067 E3	-0.1	100	0.00	11.03-11.23
30	AR1254-G	1.153	1.125 E3	2.4	98	0.00	12.23-12.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:02 2012 GCEF

8.7.38

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** GEF4548-ICV4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF111317.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111317.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111317.D\ECD2B.CH
Acq On    :  8 Aug 2012  10:05 pm                    Operator: gwend
Sample    : icv4548-1000                              Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
12	AR1242-A	442.268	398.560	9.9	90	0.00	4.22- 4.42
13	AR1242-B	853.573	749.987	12.1	88	0.00	5.02- 5.22
14	AR1242-C	602.005	532.236	11.6	88	0.00	5.64- 5.84
15	AR1242-D	330.215	291.527	11.7	88	0.00	6.03- 6.23
16	AR1242-E	531.927	479.882	9.8	90	0.00	6.90- 7.10
31	AR1262-A	546.027	561.614	-2.9	103	0.00	9.06- 9.26
32	AR1262-B	740.244	755.609	-2.1	102	0.00	9.90-10.10
33	AR1262-C	634.103	660.233	-4.1	104	0.00	10.42-10.62
34	AR1262-D	1.365	1.422 E3	-4.2	104	0.00	11.10-11.30
35	AR1262-E	544.422	570.318	-4.8	105	0.00	11.79-11.99

***** Signal #2 *****

12	AR1242-A	636.775	558.058	12.4	88	0.00	5.94- 6.14
13	AR1242-B	1.158	0.995 E3	14.1	86	0.00	6.88- 7.08
14	AR1242-C	512.433	437.493	14.6	85	0.00	7.17- 7.37
15	AR1242-D	346.441	298.319	13.9	86	0.00	7.38- 7.58
16	AR1242-E	347.055	307.729	11.3	89	0.00	8.17- 8.37
31	AR1262-A	981.603	961.800	2.0	98	0.00	11.43-11.63
32	AR1262-B	1.573	1.518 E3	3.5	96	0.00	12.43-12.63
33	AR1262-C	1.213	1.207 E3	0.5	99	0.00	13.09-13.29
34	AR1262-D	2.507	2.388 E3	4.7	95	0.00	13.66-13.86
35	AR1262-E	1.664	1.665 E3	-0.1	100	0.00	14.47-14.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:05 2012 GCEF

8.7.39

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICV4548
Lab FileID: EF111318.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111318.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111318.D\ECD2B.CH
Acq On    :  8 Aug 2012  10:29 pm                    Operator: gwend
Sample    : icv4548-1000                              Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)	RT Window
17	AR1248-A	211.067	229.649		-8.8	109	0.00	4.22- 4.42
18	AR1248-B	471.967	479.857		-1.7	102	0.00	5.01- 5.21
19	AR1248-C	900.454	846.630		6.0	94	0.00	5.63- 5.83
20	AR1248-D	495.195	461.270		6.9	93	0.00	6.02- 6.22
21	AR1248-E	897.311	819.075		8.7	91	0.00	6.89- 7.09
22	AR1248-F	796.417	726.762		8.7	91	0.00	7.28- 7.48
23	AR1248-G	238.265	227.763		4.4	96	0.00	8.09- 8.29
36	AR1268-A	1.518	1.433	E3	5.6	94	0.00	11.79-11.99
37	AR1268-B	1.891	1.975	E3	-4.4	104	0.00	11.87-12.07
38	AR1268-C	1.399	1.262	E3	9.8	90	0.00	12.29-12.49
39	AR1268-D	560.240	497.487		11.2	89	0.00	13.07-13.27

***** Signal #2 *****

17	AR1248-A	267.737	277.334		-3.6	104	0.00	5.93- 6.13
18	AR1248-B	662.945	626.656		5.5	95	0.00	6.87- 7.07
19	AR1248-C	430.437	389.942		9.4	91	0.00	7.59- 7.79
20	AR1248-D	539.137	485.046		10.0	90	0.00	8.16- 8.36
21	AR1248-E	894.646	765.451		14.4	86	0.00	9.09- 9.29
22	AR1248-F	654.547	562.084		14.1	86	0.00	9.59- 9.79
23	AR1248-G	378.761	349.890		7.6	92	0.00	10.52-10.72
36	AR1268-A	3.325	3.087	E3	7.2	93	0.00	14.47-14.67
37	AR1268-B	3.224	3.250	E3	-0.8	101	0.00	14.57-14.77
38	AR1268-C	2.624	2.284	E3	13.0	87	0.00	15.15-15.35
39	AR1268-D	925.087	744.951		19.5	81	0.00	15.79-15.99

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:08 2012 GCEF

8.7.40

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112169.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4566\EF112169.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\GEF4566\EF112169.D\ECD2B.CH
Acq On    :  4 Sep 2012   7:45 am                    Operator: gwend
Sample    : cc4548-1000                              Inst    : gcef
Misc      : OP59457,GEF4566,15.4,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Fri Aug 31 13:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.963 E3	12.0	90	-0.01	3.02- 3.08
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	293.101	8.6	92	-0.02	3.53- 3.59

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112169.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	493.742	404.789		18.0	86	-0.02	4.09- 4.15
43		AR1016-C	909.129	862.595		5.1	94	-0.02	4.87- 4.93
44		AR1016-D	652.126	596.691		8.5	92	-0.01	5.48- 5.54
45		AR1016-E	346.173	323.226		6.6	92	-0.01	5.85- 5.91
46		AR1260-A	927.170	879.369		5.2	90	-0.02	9.45- 9.51
47		AR1260-B	464.864	405.455		12.8	91	-0.02	9.69- 9.75
48		AR1260-C	448.615	410.791		8.4	90	-0.02	10.21-10.27
49		AR1260-D	1.047	1.044	E3	0.3	96	-0.01	10.89-10.95
50		AR1260-E	1.013	0.941	E3	7.1	92	-0.02	11.49-11.55
51	S	Decachlorobiphenyl	13.838	12.425	E3	10.2	89	-0.01	13.89-13.95

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.435	E3	10.7	91	-0.01	4.07- 4.13
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	339.160		-1.3	99	-0.02	4.97- 5.03
42		AR1016-B	688.174	648.015		5.8	95	-0.02	5.78- 5.84
43		AR1016-C	1.240	1.178	E3	5.0	94	-0.02	6.71- 6.77
44		AR1016-D	551.557	515.011		6.6	91	-0.02	6.99- 7.05
45		AR1016-E	368.077	329.427		10.5	89	-0.02	7.98- 8.04
46		AR1260-A	1.511	1.502	E3	0.6	96	-0.02	12.01-12.07
47		AR1260-B	876.145	816.755		6.8	92	-0.02	12.22-12.28

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4566-CC4548
Lab FileID: EF112169.D

48		AR1260-C	789.079	732.350		7.2	92	-0.02	12.87-12.93
49		AR1260-D	1.821	1.728	E3	5.1	93	-0.01	13.44-13.50
50		AR1260-E	1.168	1.140	E3	2.4	94	-0.01	14.26-14.32
51	S	Decachlorobiphenyl	17.541	18.332	E3	-4.5	103	-0.01	16.88-16.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF112072.D PCB4548.M Tue Sep 04 11:50:53 2012 GCEF

8.7.41

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112180.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4566\EF112180.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4566\EF112180.D\ECD2B.CH
Acq On    :  4 Sep 2012  12:20 pm                    Operator: gwend
Sample    : cc4548-500                               Inst    : gcef
Misc      : OP59485,GEF4566,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Fri Aug 31 13:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.805 E3	14.0	90	0.00	3.02- 3.08
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	316.370	1.4	97	0.00	3.54- 3.60

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112180.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	493.742	427.235		13.5	87	0.00	4.10- 4.16
43		AR1016-C	909.129	892.828		1.8	99	0.00	4.88- 4.94
44		AR1016-D	652.126	637.557		2.2	95	0.00	5.49- 5.55
45		AR1016-E	346.173	326.106		5.8	93	0.00	5.87- 5.93
46		AR1260-A	927.170	850.480		8.3	93	0.00	9.46- 9.52
47		AR1260-B	464.864	446.866		3.9	94	0.00	9.71- 9.77
48		AR1260-C	448.615	409.800		8.7	92	0.00	10.22-10.28
49		AR1260-D	1.047	0.972	E3	7.2	95	0.00	10.90-10.96
50		AR1260-E	1.013	0.906	E3	10.6	90	-0.01	11.49-11.55
51	S	Decachlorobiphenyl	13.838	12.627	E3	8.8	85	0.00	13.90-13.96

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.764	E3	7.5	97	0.00	4.08- 4.14
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	342.906		-2.4	99	0.00	4.99- 5.05
42		AR1016-B	688.174	654.462		4.9	94	0.00	5.79- 5.85
43		AR1016-C	1.240	1.213	E3	2.2	97	0.00	6.72- 6.78
44		AR1016-D	551.557	517.117		6.2	92	0.00	7.00- 7.06
45		AR1016-E	368.077	342.860		6.9	92	0.00	7.99- 8.05
46		AR1260-A	1.511	1.387	E3	8.2	93	0.00	12.02-12.08
47		AR1260-B	876.145	731.047		16.6	83	0.00	12.22-12.28

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4566-CC4548
Lab FileID: EF112180.D

48		AR1260-C	789.079	633.415	19.7	81	0.00	12.88-12.94
49		AR1260-D	1.821	1.586 E3	12.9	89	0.00	13.45-13.51
50		AR1260-E	1.168	0.944 E3	19.2	84	0.00	14.26-14.32
51	S	Decachlorobiphenyl	17.541	16.095 E3	8.2	91	0.00	16.89-16.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111307.D PCB4548.M Tue Sep 04 12:43:51 2012 GCEF

8.7.42

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112200.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4566\EF112200.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\GEF4566\EF112200.D\ECD2B.CH
Acq On    :  4 Sep 2012   9:12 pm                    Operator: gwend
Sample    : cc4548-500                               Inst    : gcef
Misc      : OP59485,GEF4566,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Fri Aug 31 13:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.796 E3	14.1	90	0.00	3.02- 3.08
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	322.835	-0.6	99	0.00	3.54- 3.60

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112200.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	493.742	430.030		12.9	87	0.00	4.10- 4.16
43		AR1016-C	909.129	885.209		2.6	98	0.00	4.88- 4.94
44		AR1016-D	652.126	645.314		1.0	96	0.00	5.49- 5.55
45		AR1016-E	346.173	328.423		5.1	93	0.00	5.87- 5.93
46		AR1260-A	927.170	916.959		1.1	101	0.00	9.46- 9.52
47		AR1260-B	464.864	430.489		7.4	90	0.00	9.70- 9.76
48		AR1260-C	448.615	429.840		4.2	97	0.00	10.22-10.28
49		AR1260-D	1.047	1.043	E3	0.4	102	0.00	10.90-10.96
50		AR1260-E	1.013	0.956	E3	5.6	95	-0.01	11.50-11.56
51	S	Decachlorobiphenyl	13.838	13.632	E3	1.5	92	0.00	13.90-13.96

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.870	E3	6.5	98	0.00	4.08- 4.14
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	351.040		-4.8	102	0.00	4.99- 5.05
42		AR1016-B	688.174	676.591		1.7	97	0.00	5.79- 5.85
43		AR1016-C	1.240	1.291	E3	-4.1	103	0.00	6.72- 6.78
44		AR1016-D	551.557	553.928		-0.4	99	0.00	7.00- 7.06
45		AR1016-E	368.077	354.612		3.7	95	-0.01	7.99- 8.05
46		AR1260-A	1.511	1.540	E3	-1.9	103	0.00	12.02-12.08
47		AR1260-B	876.145	842.852		3.8	96	0.00	12.22-12.28

Continuing Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4566-CC4548
Lab FileID: EF112200.D

48		AR1260-C	789.079	746.124		5.4	95	0.00	12.88-12.94
49		AR1260-D	1.821	1.758	E3	3.5	99	0.00	13.45-13.51
50		AR1260-E	1.168	1.105	E3	5.4	98	0.00	14.27-14.33
51	S	Decachlorobiphenyl	17.541	17.862	E3	-1.8	101	0.00	16.89-16.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111307.D PCB4548.M Wed Sep 05 07:26:44 2012 GCEF

8.7.43

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112211.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4566\EF112211.D\ECD1A.CH Vial: 43
Signal #2 : C:\HPCHEM\1\DATA\GEF4566\EF112211.D\ECD2B.CH
Acq On    :  5 Sep 2012   2:25 am                    Operator: gwend
Sample    : cc4548-1000                              Inst    : gcef
Misc      : OP59466,GEF4566,16.3,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Fri Aug 31 13:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	7.030 E3	11.2	91	0.00	3.03- 3.09
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	307.984	4.0	96	0.00	3.54- 3.60

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112211.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	493.742	409.049		17.2	87	0.00	4.10- 4.16
43		AR1016-C	909.129	889.372		2.2	97	0.00	4.88- 4.94
44		AR1016-D	652.126	615.442		5.6	95	0.00	5.49- 5.55
45		AR1016-E	346.173	327.462		5.4	93	0.00	5.87- 5.93
46		AR1260-A	927.170	903.043		2.6	93	0.00	9.46- 9.52
47		AR1260-B	464.864	463.570		0.3	105	0.00	9.70- 9.76
48		AR1260-C	448.615	438.015		2.4	96	0.00	10.22-10.28
49		AR1260-D	1.047	1.090	E3	-4.1	100	0.00	10.89-10.95
50		AR1260-E	1.013	1.004	E3	0.9	99	-0.01	11.49-11.55
51	S	Decachlorobiphenyl	13.838	13.713	E3	0.9	98	0.00	13.90-13.96

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	10.404	E3	1.5	100	0.00	4.08- 4.14
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	351.736		-5.0	102	0.00	4.99- 5.05
42		AR1016-B	688.174	669.767		2.7	98	0.00	5.80- 5.86
43		AR1016-C	1.240	1.292	E3	-4.2	103	0.00	6.72- 6.78
44		AR1016-D	551.557	562.987		-2.1	99	0.00	7.00- 7.06
45		AR1016-E	368.077	358.904		2.5	97	0.00	7.99- 8.05
46		AR1260-A	1.511	1.618	E3	-7.1	104	0.00	12.02-12.08
47		AR1260-B	876.145	880.342		-0.5	99	-0.01	12.22-12.28

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GEF4566-CC4548
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** EF112211.D
Project: 508 West 24th Street, Manhattan, NY

48		AR1260-C	789.079	794.227	-0.7	100	-0.01	12.88-12.94
49		AR1260-D	1.821	1.918 E3	-5.3	103	0.00	13.44-13.50
50		AR1260-E	1.168	1.206 E3	-3.3	100	0.00	14.26-14.32
51	S	Decachlorobiphenyl	17.541	19.302 E3	-10.0	109	0.00	16.89-16.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF112072.D PCB4548.M Wed Sep 05 07:28:52 2012 GCEF

8.7.44

8

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GXX4415-ICC4415
Lab FileID: XX121538.D

Response Factor Report GCXX

Method : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title :
Last Update : Tue Jul 10 15:30:23 2012
Response via : Initial Calibration

Calibration Files
50 =XX121541.D 250 =XX121540.D 500 =XX121539.D 1000=XX121538.D
2000 =XX121537.D 3000 =XX121536.D

	Compound	50	250	500	1000	2000	3000	Avg		%RSD
1) S	Tetrachloro-m-xylen	8.802	8.092	8.070	8.048	8.024	8.132	8.195	E6	3.66
2)	AR1221-A				6.202			6.202	E4	0.00
3)	AR1221-B				8.393			8.393	E4	0.00
4)	AR1221-C				2.644			2.644	E5	0.00
5)	AR1221-D				3.762			3.762	E4	0.00
6)	AR1221-E				6.128			6.128	E4	0.00
7)	AR1232-A				2.138			2.138	E5	0.00
8)	AR1232-B				1.452			1.452	E5	0.00
9)	AR1232-C				3.365			3.365	E5	0.00
10)	AR1232-D				1.160			1.160	E5	0.00
11)	AR1232-E				1.114			1.114	E5	0.00
12)	AR1242-A				2.493			2.493	E5	0.00
13)	AR1242-B				6.251			6.251	E5	0.00
14)	AR1242-C				2.129			2.129	E5	0.00
15)	AR1242-D				2.266			2.266	E5	0.00
16)	AR1242-E				2.033			2.033	E5	0.00
17)	AR1248-A				1.167			1.167	E5	0.00
18)	AR1248-B				3.793			3.793	E5	0.00
19)	AR1248-C				5.162			5.162	E5	0.00
20)	AR1248-D				3.546			3.546	E5	0.00
21)	AR1248-E				2.069			2.069	E5	0.00
22)	AR1248-F				3.457			3.457	E5	0.00
23)	AR1248-G				2.693			2.693	E5	0.00
24)	AR1254-A				3.052			3.052	E5	0.00
25)	AR1254-B				5.534			5.534	E5	0.00
26)	AR1254-C				3.028			3.028	E5	0.00
27)	AR1254-D				5.392			5.392	E5	0.00
28)	AR1254-E				4.480			4.480	E5	0.00
29)	AR1254-F				3.830			3.830	E5	0.00
30)	AR1254-G				5.665			5.665	E5	0.00
31)	AR1262-A				4.019			4.019	E5	0.00
32)	AR1262-B				5.198			5.198	E5	0.00
33)	AR1262-C				4.908			4.908	E5	0.00
34)	AR1262-D				1.039			1.039	E6	0.00
35)	AR1262-E				4.287			4.287	E5	0.00
36)	AR1268-A				1.222			1.222	E6	0.00
37)	AR1268-B				1.330			1.330	E6	0.00
38)	AR1268-C				1.045			1.045	E6	0.00
39)	AR1268-D				4.522			4.522	E5	0.00
40)	AR1268-E				3.453			3.453	E6	0.00
41)	AR1016-A	1.696	1.688	1.634	1.580	1.505	1.489	1.599	E5	5.59
42)	AR1016-B	3.361	2.989	2.847	2.742	2.626	2.607	2.862	E5	9.89
43)	AR1016-C	7.420	7.114	6.983	6.993	6.912	6.974	7.066	E5	2.62
44)	AR1016-D	2.672	2.502	2.425	2.372	2.307	2.320	2.433	E5	5.64
45)	AR1016-E	2.837	2.646	2.536	2.479	2.399	2.398	2.549	E5	6.63
46)	AR1260-A	6.310	5.952	5.906	5.959	5.896	5.900	5.987	E5	2.68
47)	AR1260-B	3.231	3.109	3.032	3.007	2.917	2.899	3.033	E5	4.09

Initial Calibration Summary

Job Number: JB15113 **Sample:** GXX4415-ICC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX121538.D
Project: 508 West 24th Street, Manhattan, NY

48)		AR1260-C	3.422	3.496	3.456	3.511	3.421	3.420	3.454	E5	1.18
49)		AR1260-D	8.690	8.797	8.857	9.082	8.832	8.761	8.836	E5	1.51
50)		AR1260-E	5.878	5.857	5.830	5.870	5.836	5.841	5.852	E5	0.33
51)	S	Decachlorobiphenyl	9.565	8.798	8.401	8.263	8.020	7.907	8.492	E6	7.20

Signal #2

1)	S	Tetrachloro-m-xylen	4.947	5.287	5.295	5.388	5.433	5.523	5.312	E6	3.76
2)		AR1221-A				4.311			4.311	E4	0.00
3)		AR1221-B				5.923			5.923	E4	0.00
4)		AR1221-C				1.504			1.504	E5	0.00
5)		AR1221-D				2.745			2.745	E4	0.00
6)		AR1221-E				3.631			3.631	E4	0.00
7)		AR1232-A				1.262			1.262	E5	0.00
8)		AR1232-B				9.956			9.956	E4	0.00
9)		AR1232-C				2.064			2.064	E5	0.00
10)		AR1232-D				8.686			8.686	E4	0.00
11)		AR1232-E				5.861			5.861	E4	0.00
12)		AR1242-A				1.700			1.700	E5	0.00
13)		AR1242-B				3.759			3.759	E5	0.00
14)		AR1242-C				1.553			1.553	E5	0.00
15)		AR1242-D				1.155			1.155	E5	0.00
16)		AR1242-E				1.480			1.480	E5	0.00
17)		AR1248-A				8.193			8.193	E4	0.00
18)		AR1248-B				2.330			2.330	E5	0.00
19)		AR1248-C				1.392			1.392	E5	0.00
20)		AR1248-D				1.855			1.855	E5	0.00
21)		AR1248-E				2.092			2.092	E5	0.00
22)		AR1248-F				2.633			2.633	E5	0.00
23)		AR1248-G				2.443			2.443	E5	0.00
24)		AR1254-A				2.232			2.232	E5	0.00
25)		AR1254-B				2.412			2.412	E5	0.00
26)		AR1254-C				1.007			1.007	E5	0.00
27)		AR1254-D				1.972			1.972	E5	0.00
28)		AR1254-E				2.883			2.883	E5	0.00
29)		AR1254-F				2.238			2.238	E5	0.00
30)		AR1254-G				3.828			3.828	E5	0.00
31)		AR1262-A				2.722			2.722	E5	0.00
32)		AR1262-B				3.908			3.908	E5	0.00
33)		AR1262-C				3.559			3.559	E5	0.00
34)		AR1262-D				7.945			7.945	E5	0.00
35)		AR1262-E				5.544			5.544	E5	0.00
36)		AR1268-A				1.004			1.004	E6	0.00
37)		AR1268-B				1.037			1.037	E6	0.00
38)		AR1268-C				8.607			8.607	E5	0.00
39)		AR1268-D				3.582			3.582	E5	0.00
40)		AR1268-E				2.726			2.726	E6	0.00
41)		AR1016-A	1.111	1.026	1.014	0.985	0.923	0.915	0.996	E5	7.31
42)		AR1016-B	2.136	2.044	1.973	1.900	1.816	1.802	1.945	E5	6.74
43)		AR1016-C	4.907	4.450	4.337	4.266	4.177	4.177	4.386	E5	6.29
44)		AR1016-D	1.491	1.411	1.379	1.346	1.303	1.299	1.372	E5	5.32
45)		AR1016-E	1.423	1.348	1.306	1.280	1.243	1.239	1.306	E5	5.37
46)		AR1260-A	4.060	3.675	3.439	3.452	3.354	3.316	3.549	E5	7.88
47)		AR1260-B	2.779	2.417	2.321	2.294	2.250	2.227	2.381	E5	8.64
48)		AR1260-C	2.665	2.420	2.356	2.344	2.321	2.312	2.403	E5	5.57
49)		AR1260-D	6.283	6.067	6.036	6.123	6.104	6.057	6.112	E5	1.47
50)		AR1260-E	4.276	4.092	4.064	4.125	4.126	4.144	4.138	E5	1.77
51)	S	Decachlorobiphenyl	6.870	6.682	6.286	6.472	6.306	6.284	6.483	E6	3.77

(#) = Out of Range

Initial Calibration Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GXX4415-ICC4415
Lab FileID: XX121538.D

PCB4415.M Wed Jul 11 09:22:41 2012 GCXX

Initial Calibration Verification

Job Number: JB15113 **Sample:** GXX4415-ICV4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX121547.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4415\XX121547.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GXX4415\XX121547.D\ECD2B.CH
Acq On    : 10 Jul 2012   3:45 pm                    Operator: annaz
Sample    : icv4415-1000 1221                        Inst    : GCXX
Misc      : OP58136,GXX4415,2.9,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
3	AR1221-B	83.931	81.404 E3	3.0	97	0.02	2.61- 2.81
4	AR1221-C	264.446	257.511 E3	2.6	97	0.02	2.80- 3.00
5	AR1221-D	37.620	40.275 E3	-7.1	107	0.02	3.18- 3.38
6	AR1221-E	61.277	52.742 E3	13.9	86	0.01	3.70- 3.90
***** Signal #2 *****							
3	AR1221-B	59.234	61.204 E3	-3.3	103	0.01	3.43- 3.63
4	AR1221-C	150.357	142.767 E3	5.0	95	0.01	3.68- 3.88
5	AR1221-D	27.453	28.171 E3	-2.6	103	0.00	4.19- 4.39
6	AR1221-E	36.313	33.388 E3	8.1	92	0.00	4.80- 5.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX121538.D PCB4415.M Wed Jul 11 09:16:02 2012 GCXX

8.7.46

8

Initial Calibration Verification

Job Number: JB15113 **Sample:** GXX4415-ICV4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX121548.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4415\XX121548.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GXX4415\XX121548.D\ECD2B.CH
Acq On    : 10 Jul 2012   4:03 pm                    Operator: annaz
Sample    : icv4415-1000 1016/1260                   Inst    : GCXX
Misc      : OP58136,GXX4415,2.9,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
41	AR1016-A	159.861	170.754 E3	-6.8	108	0.01	2.86- 2.92
42	AR1016-B	286.204	297.125 E3	-3.8	108	0.01	3.25- 3.31
43	AR1016-C	706.588	748.560 E3	-5.9	107	0.00	3.77- 3.83
44	AR1016-D	243.298	256.196 E3	-5.3	108	0.00	3.93- 3.99
45	AR1016-E	254.909	266.584 E3	-4.6	108	0.00	4.43- 4.49
46	AR1260-A	598.703	577.378 E3	3.6	97	0.00	6.38- 6.44
47	AR1260-B	303.263	362.148 E3	-19.4	120	0.00	6.91- 6.97
48	AR1260-C	345.446	401.180 E3	-16.1	114	0.00	7.24- 7.30
49	AR1260-D	883.639	1052.008 E3	-19.1	116	0.00	7.68- 7.74
50	AR1260-E	585.222	658.303 E3	-12.5	112	0.00	8.07- 8.13
*****	Signal #2 *****						
41	AR1016-A	99.553	106.309 E3	-6.8	108	0.00	3.74- 3.80
42	AR1016-B	194.487	201.286 E3	-3.5	106	0.00	4.27- 4.33
43	AR1016-C	438.575	448.820 E3	-2.3	105	0.00	4.87- 4.93
44	AR1016-D	137.161	142.690 E3	-4.0	106	0.00	5.19- 5.25
45	AR1016-E	130.647	135.144 E3	-3.4	106	0.00	5.68- 5.74
46	AR1260-A	354.928	350.506 E3	1.2	102	0.00	7.75- 7.81
47	AR1260-B	238.135	274.526 E3	-15.3	120	0.00	8.38- 8.44
48	AR1260-C	240.305	278.554 E3	-15.9	119	0.00	8.79- 8.85
49	AR1260-D	611.170	719.984 E3	-17.8	118	0.00	9.16- 9.22
50	AR1260-E	413.792	465.675 E3	-12.5	113	0.00	9.68- 9.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX121538.D PCB4415.M Wed Jul 11 09:17:48 2012 GCXX

8.7.47

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GXX4415-ICV4415
Lab FileID: XX121549.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4415\XX121549.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GXX4415\XX121549.D\ECD2B.CH
Acq On    : 10 Jul 2012   4:18 pm                    Operator: annaz
Sample    : icv4415-1000 1232/1254                   Inst    : GCXX
Misc      : OP58136,GXX4415,2.9,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
7	AR1232-A	213.759	191.457 E3	10.4	90	0.02	2.80- 3.00
8	AR1232-B	145.227	130.370 E3	10.2	90	0.02	3.18- 3.38
9	AR1232-C	336.487	308.424 E3	8.3	92	0.01	3.70- 3.90
10	AR1232-D	116.013	106.797 E3	7.9	92	0.01	3.87- 4.07
25	AR1254-B	553.413	586.514 E3	-6.0	106	0.00	5.17- 5.37
26	AR1254-C	302.827	275.565 E3	9.0	91	0.00	5.53- 5.73
27	AR1254-D	539.243	496.032 E3	8.0	92	0.00	5.69- 5.89
28	AR1254-E	448.036	450.067 E3	-0.5	100	0.00	6.07- 6.27
29	AR1254-F	382.999	349.907 E3	8.6	91	0.00	6.31- 6.51
30	AR1254-G	566.509	530.241 E3	6.4	94	0.00	6.69- 6.89
*****	Signal #2 *****						
7	AR1232-A	126.204	112.636 E3	10.8	89	0.02	3.68- 3.88
8	AR1232-B	99.562	89.139 E3	10.5	90	0.00	4.20- 4.40
9	AR1232-C	206.431	187.696 E3	9.1	91	0.00	4.80- 5.00
10	AR1232-D	86.860	79.129 E3	8.9	91	0.00	4.98- 5.18
25	AR1254-B	241.246	215.915 E3	10.5	89	0.00	6.46- 6.66
26	AR1254-C	100.675	96.719 E3	3.9	96	0.00	6.86- 7.06
27	AR1254-D	197.246	183.694 E3	6.9	93	0.00	6.94- 7.14
28	AR1254-E	288.282	289.262 E3	-0.3	100	0.00	7.43- 7.63
29	AR1254-F	223.790	234.046 E3	-4.6	105	0.00	7.92- 8.12
30	AR1254-G	382.750	360.504 E3	5.8	94	0.00	8.18- 8.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX121538.D PCB4415.M Wed Jul 11 09:19:57 2012 GCXX

8.7.48

8

Initial Calibration Verification

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GXX4415-ICV4415
Lab FileID: XX121550.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4415\XX121550.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GXX4415\XX121550.D\ECD2B.CH
Acq On    : 10 Jul 2012   4:32 pm                    Operator: annaz
Sample    : icv4415-1000 1242/1262                   Inst    : GCXX
Misc      : OP58136,GXX4415,2.9,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
12	AR1242-A	249.323	229.512 E3	7.9	92	0.02	3.18- 3.38
13	AR1242-B	625.133	562.013 E3	10.1	90	0.00	3.70- 3.90
14	AR1242-C	212.852	196.987 E3	7.5	93	0.01	3.87- 4.07
15	AR1242-D	226.566	206.102 E3	9.0	91	0.01	4.36- 4.56
16	AR1242-E	203.333	171.081 E3	15.9	84	0.00	4.93- 5.13
31	AR1262-A	401.917	381.129 E3	5.2	95	0.00	6.31- 6.51
32	AR1262-B	519.849	494.413 E3	4.9	95	0.00	6.84- 7.04
33	AR1262-C	490.784	474.603 E3	3.3	97	0.00	7.17- 7.37
34	AR1262-D	1.039	0.981 E6	5.6	94	0.00	7.61- 7.81
35	AR1262-E	428.687	418.688 E3	2.3	98	0.00	8.05- 8.25
*****	Signal #2 *****						
12	AR1242-A	170.001	154.534 E3	9.1	91	0.00	4.20- 4.40
13	AR1242-B	375.890	339.938 E3	9.6	90	0.00	4.80- 5.00
14	AR1242-C	155.268	141.990 E3	8.6	91	0.00	4.98- 5.18
15	AR1242-D	115.450	105.363 E3	8.7	91	0.00	5.61- 5.81
16	AR1242-E	147.973	157.841 E3	-6.7	107	0.00	6.20- 6.40
31	AR1262-A	272.207	257.430 E3	5.4	95	0.00	7.68- 7.88
32	AR1262-B	390.804	374.665 E3	4.1	96	0.00	8.31- 8.51
33	AR1262-C	355.880	344.700 E3	3.1	97	0.00	8.73- 8.93
34	AR1262-D	794.521	744.606 E3	6.3	94	0.00	9.09- 9.29
35	AR1262-E	554.377	527.028 E3	4.9	95	0.00	9.60- 9.80

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 XX121538.D PCB4415.M        Wed Jul 11 09:21:17 2012   GCXX
```

Initial Calibration Verification

Job Number: JB15113 **Sample:** GXX4415-ICV4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX121551.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4415\XX121551.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GXX4415\XX121551.D\ECD2B.CH
Acq On    : 10 Jul 2012   4:47 pm                    Operator: annaz
Sample    : icv4415-1000 1248/1268                   Inst    : GCXX
Misc      : OP58136,GXX4415,2.9,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
17	AR1248-A	116.683	111.965 E3	4.0	96	0.01	3.18- 3.38
18	AR1248-B	379.309	333.350 E3	12.1	88	0.00	3.70- 3.90
19	AR1248-C	516.236	427.037 E3	17.3	83	0.00	4.10- 4.30
20	AR1248-D	354.636	294.275 E3	17.0	83	0.01	4.36- 4.56
21	AR1248-E	206.891	167.670 E3	19.0	81	0.00	4.47- 4.67
36	AR1268-A	1.222	1.081 E6	11.5	88	0.00	8.05- 8.25
37	AR1268-B	1.330	1.326 E6	0.3	100	0.00	8.10- 8.30
38	AR1268-C	1.045	0.876 E6	16.2	84	0.00	8.36- 8.56
*****	Signal #2 *****						
17	AR1248-A	81.930	75.694 E3	7.6	92	0.00	4.20- 4.40
18	AR1248-B	232.992	205.216 E3	11.9	88	0.00	4.79- 4.99
19	AR1248-C	139.225	116.386 E3	16.4	84	0.00	5.25- 5.45
20	AR1248-D	185.458	153.052 E3	17.5	83	0.00	5.61- 5.81
21	AR1248-E	209.240	168.334 E3	19.5	80	0.00	5.78- 5.98
36	AR1268-A	1.004	0.889 E6	11.5	89	0.00	9.59- 9.79
37	AR1268-B	1.037	1.020 E6	1.6	98	0.00	9.66- 9.86
38	AR1268-C	860.676	718.816 E3	16.5	84	0.00	10.02-10.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX121538.D PCB4415.M Wed Jul 11 09:22:39 2012 GCXX

8.7.50

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123505.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4458\XX123505.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GXX4458\XX123505.D\ECD2B.CH
Acq On    :  5 Sep 2012  12:00 pm                    Operator: husamq
Sample    : cc4415-1000                              Inst    : GCXX
Misc      : OP59507,GXX4458,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415A.M (Chemstation Integrator)
Title        :
Last Update  : Wed Sep 05 08:41:38 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	8.195	8.333 E6	-1.7	104	0.00	2.51- 2.57
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	159.861	163.723 E3	-2.4	104	0.00	2.86- 2.92

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123505.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	286.204	279.857	E3	2.2	102	0.00	3.24- 3.30
43		AR1016-C	706.588	648.813	E3	8.2	93	0.00	3.77- 3.83
44		AR1016-D	243.298	240.321	E3	1.2	101	0.00	3.93- 3.99
45		AR1016-E	254.909	244.923	E3	3.9	99	0.00	4.42- 4.48
46		AR1260-A	598.703	552.804	E3	7.7	93	0.00	6.38- 6.44
47		AR1260-B	303.263	293.578	E3	3.2	98	0.00	6.91- 6.97
48		AR1260-C	345.446	320.342	E3	7.3	91	0.00	7.25- 7.31
49		AR1260-D	883.639	887.610	E3	-0.4	98	0.00	7.68- 7.74
50		AR1260-E	585.222	535.521	E3	8.5	91	0.00	8.08- 8.14
51	S	Decachlorobiphenyl	8.492	7.608	E6	10.4	92	0.00	9.60- 9.66

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	5.312	5.431	E6	-2.2	101	0.00	3.15- 3.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	99.553	98.165	E3	1.4	100	0.00	3.73- 3.79
42		AR1016-B	194.487	191.471	E3	1.6	101	0.00	4.25- 4.31
43		AR1016-C	438.575	437.956	E3	0.1	103	0.00	4.86- 4.92
44		AR1016-D	137.161	137.354	E3	-0.1	102	0.00	5.18- 5.24
45		AR1016-E	130.647	126.932	E3	2.8	99	0.00	5.67- 5.73
46		AR1260-A	354.928	336.624	E3	5.2	98	0.00	7.74- 7.80
47		AR1260-B	238.135	234.663	E3	1.5	102	0.00	8.37- 8.43

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123505.D
Project: 508 West 24th Street, Manhattan, NY

48		AR1260-C	240.305	237.487	E3	1.2	101	0.00	8.79- 8.85
49		AR1260-D	611.170	609.214	E3	0.3	99	0.00	9.15- 9.21
50		AR1260-E	413.792	387.722	E3	6.3	94	0.00	9.67- 9.73
51	S	Decachlorobiphenyl	6.483	5.947	E6	8.3	92	0.00	11.33-11.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX123475.D PCB4415A.M Wed Sep 05 14:15:05 2012 GCXX

8.7.51

8

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123515.D
Project: 508 West 24th Street, Manhattan, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GXX4458\XX123515.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\GXX4458\XX123515.D\ECD2B.CH
Acq On    :  5 Sep 2012   3:48 pm                    Operator: husamq
Sample    : cc4415-500                               Inst    : GCXX
Misc      : OP59399,GXX4458,2.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4415.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 10 15:30:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	8.195	6.813 E6	16.9	84	0.00	2.50- 2.56
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	159.861	129.728 E3	18.8	79	0.00	2.85- 2.91

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123515.D
Project: 508 West 24th Street, Manhattan, NY

42		AR1016-B	286.204	245.126	E3	14.4	86	0.00	3.24- 3.30
43		AR1016-C	706.588	609.684	E3	13.7	87	0.00	3.76- 3.82
44		AR1016-D	243.298	196.545	E3	19.2	81	0.00	3.93- 3.99
45		AR1016-E	254.909	217.315	E3	14.7	86	0.00	4.42- 4.48
46		AR1260-A	598.703	498.142	E3	16.8	84	0.00	6.37- 6.43
47		AR1260-B	303.263	250.970	E3	17.2	83	0.00	6.91- 6.97
48		AR1260-C	345.446	285.544	E3	17.3	83	0.00	7.24- 7.30
49		AR1260-D	883.639	752.461	E3	14.8	85	0.00	7.68- 7.74
50		AR1260-E	585.222	510.338	E3	12.8	88	0.00	8.07- 8.13
51	S	Decachlorobiphenyl	8.492	7.077	E6	16.7	84	0.00	9.59- 9.65

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	5.312	4.684	E6	11.8	88	0.00	3.15- 3.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	99.553	84.870	E3	14.7	84	0.00	3.73- 3.79
42		AR1016-B	194.487	184.544	E3	5.1	94	0.00	4.26- 4.32
43		AR1016-C	438.575	396.804	E3	9.5	92	0.00	4.86- 4.92
44		AR1016-D	137.161	122.650	E3	10.6	89	0.00	5.18- 5.24
45		AR1016-E	130.647	114.202	E3	12.6	87	0.00	5.68- 5.74
46		AR1260-A	354.928	303.428	E3	14.5	88	0.00	7.74- 7.80
47		AR1260-B	238.135	207.862	E3	12.7	90	0.00	8.37- 8.43

Continuing Calibration Summary

Job Number: JB15113 **Sample:** GXX4458-CC4415
Account: LANGAN Langan Engineering & Environmental **Lab FileID:** XX123515.D
Project: 508 West 24th Street, Manhattan, NY

48		AR1260-C	240.305	221.323	E3	7.9	94	0.00	8.79- 8.85
49		AR1260-D	611.170	584.015	E3	4.4	97	0.00	9.15- 9.21
50		AR1260-E	413.792	378.302	E3	8.6	93	0.00	9.67- 9.73
51	S	Decachlorobiphenyl	6.483	6.337	E6	2.3	101	0.00	11.33-11.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XX121539.D PCB4415.M Wed Sep 05 15:58:29 2012 GCXX

8.7.52

8

New Jersey
ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
Analyst: JW Run ID: MA29316
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:05	MA29316-STD1	1		STDA
12:06	MA29316-STD2	1		STDB
12:08	MA29316-STD3	1		STDC
12:09	MA29316-STD4	1		STDD
12:10	MA29316-STD5	1		STDE
12:12	MA29316-STD6	1		STDF
12:21	MA29316-ICV1	1		
12:22	MA29316-ICB1	1		
12:24	MA29316-CCV1	1		
12:25	MA29316-CCB1	1		
12:27	MA29316-CRI1	1		
12:28	MP66433-MB1	1		
12:30	MP66433-LC1	1		
12:48	MP66433-S1	1		
12:49	MP66433-S2	1		
12:51	JB15076-1	1		(sample used for QC only; not part of login JB15113)
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:58	MA29316-CCV2	1		
12:59	MA29316-CCB2	1		
13:01	ZZZZZZ	1		
13:02	JB15113-1	1		
13:03	JB15113-3	1		
----------> Last reportable sample/prep for job JB15113				
13:04	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:15	MA29316-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
Analyst: JW Run ID: MA29316
Parameters: Hg

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:17	MA29316-CCB3	1		
---------->	Last reportable CCB for job JB15113				
	13:18	ZZZZZZ	1		
	13:20	ZZZZZZ	1		
	13:21	ZZZZZZ	1		
	13:23	ZZZZZZ	1		
	13:25	ZZZZZZ	1		
	13:27	MP66434-MB1	1		
	13:29	MP66434-LC1	1		
	13:30	MP66434-S1	1		
	13:32	MP66434-S2	1		
	13:34	ZZZZZZ	1		
	13:35	MA29316-CCV4	1		
	13:37	MA29316-CCB4	1		
	13:39	JB15128-13A	1		(sample used for QC only; not part of login JB15113)
	13:40	ZZZZZZ	1		
	13:42	ZZZZZZ	1		
	13:43	ZZZZZZ	1		
	13:45	ZZZZZZ	1		
	13:46	ZZZZZZ	1		
	13:47	ZZZZZZ	1		
	13:49	ZZZZZZ	1		
	13:50	ZZZZZZ	1		
	13:51	ZZZZZZ	1		
	13:53	MA29316-CCV5	1		
	13:55	MA29316-CCB5	1		
	13:56	ZZZZZZ	1		
	13:58	ZZZZZZ	1		
	13:59	ZZZZZZ	1		
	14:01	ZZZZZZ	1		
	14:02	ZZZZZZ	1		
	14:04	ZZZZZZ	1		
	14:05	ZZZZZZ	1		
	14:06	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
Analyst: JW Run ID: MA29316
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:08	ZZZZZZ	1		
14:09	MP66435-MB1	1		
14:10	MA29316-CCV6	1		
14:12	MA29316-CCB6	1		
14:13	MP66435-LC1	1		
14:15	MP66435-S1	1		
14:16	MP66435-S2	1		
14:18	JB14446-13	1		(sample used for QC only; not part of login JB15113)
14:20	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:56	ZZZZZZ	1		
14:58	ZZZZZZ	1		
14:59	MA29316-CCV7	1		
15:00	MA29316-CCB7	1		
15:02	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:08	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:11	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:17	MA29316-CCV8	1		
15:18	MA29316-CCB8	1		
15:20	ZZZZZZ	1		
15:21	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:28	ZZZZZZ	2		
15:30	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
Analyst: JW Run ID: MA29316
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:31	ZZZZZZ	2		
15:33	ZZZZZZ	2		
15:35	MA29316-CCV9	1		
15:37	MA29316-CCB9	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA29316 Units: ug/l

Time:			12:22		12:25		12:59		13:17	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.062	-0.045	<0.20	-0.063	<0.20	-0.071	<0.20	-0.079	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29316 Units: ug/l

Time:		12:21			12:24			12:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.1	103.3	2.5	2.6	104.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29316 Units: ug/l

Time:		13:15	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Mercury	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

9.1.2
9

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H5090412S1.CSV Date Analyzed: 09/04/12 Methods: SW846 7471B
QC Limits: 50 to 150 % Recovery Run ID: MA29316 Units: ug/l

Time:			12:27	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.19	95.0

(*) Outside of QC limits
(anr) Analyte not requested

9.1.3

9

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:44	MA29320-STD1	1		STDA
10:50	MA29320-STD2	1		STDB
10:56	MA29320-STD3	1		STDC
11:01	MA29320-STD4	1		STDD
11:06	MA29320-CCV1	1		
11:12	MA29320-CCB1	1		
11:18	MA29320-CRI1	1		
11:23	MA29320-CRID1	1		
11:29	MA29320-CRIA1	1		
11:35	MA29320-ICV1	1		
11:45	MA29320-ICB1	1		
11:51	MA29320-ICCV1	1		
11:59	MA29320-CCB2	1		
12:05	MA29320-CRI2	1		
12:11	MA29320-CRID2	1		
12:16	MA29320-ICSA1	1		
12:22	MA29320-ICSAB1	1		
12:28	MA29320-CCV2	1		
12:33	MA29320-CCB3	1		
12:39	MP66358-MB1	1		Neg
12:45	ZZZZZZ	1		
12:50	MP66358-S1	1		
12:56	MP66358-S2	1		
13:01	JB14352-5	1		(sample used for QC only; not part of login JB15113)
13:07	MP66358-SD1	5		
13:13	ZZZZZZ	1		
13:18	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:36	MA29320-CCV3	1		
13:41	MA29320-CCB4	1		
13:47	ZZZZZZ	1		
13:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:58	ZZZZZZ	1		
14:04	MP66359-MB1	1		
14:09	MP66359-LC1	1		
14:15	MP66359-S1	1		
14:21	MP66359-S2	1		
14:26	JB14677-4F	1		(sample used for QC only; not part of login JB15113)
14:32	MP66359-SD1	5		
14:38	MA29320-CCV4	1		
14:43	MA29320-CCB5	1		
14:49	MA29320-CRI3	1		
14:55	ZZZZZZ	1		
15:00	MA29320-CRIA2	1		
15:06	MA29320-CRID3	1		
15:12	ZZZZZZ	5		
15:17	MA29320-ICSA2	1		
15:23	MA29320-ICSAB2	1		
15:29	MA29320-CCV5	1		
15:34	MA29320-CCB6	1		
15:40	ZZZZZZ	2		
15:46	MP66359-S1	2		
15:51	MP66359-S2	2		
15:57	JB14677-4F	2		(sample used for QC only; not part of login JB15113)
16:03	MP66359-SD1	10		
16:09	ZZZZZZ	2		
16:14	ZZZZZZ	1		
16:20	MP66392-S1	1		
16:26	MP66392-S2	1		
16:31	MA29320-CCV6	1		
16:37	MA29320-CCB7	1		
16:42	JB14453-2F	1		(sample used for QC only; not part of login JB15113)
16:48	MP66392-SD1	5		
16:54	ZZZZZZ	1		
16:59	MP66362-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:05	ZZZZZZ	1		
17:11	ZZZZZZ	3		
17:16	ZZZZZZ	1		
17:22	ZZZZZZ	1		
17:27	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:39	MA29320-CCV7	1		
17:44	MA29320-CCB8	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	2		
18:01	ZZZZZZ	2		
18:06	ZZZZZZ	1		
18:12	ZZZZZZ	3		
18:18	ZZZZZZ	1		
18:23	ZZZZZZ	2		
18:29	MP66440-MB1	1		Batch to reanalyze for As, Mb neg
18:35	MP66440-LC1	1		empty
18:40	MP66440-S1	1		
18:46	MA29320-CCV8	1		
18:51	MA29320-CCB9	1		
18:57	MP66440-S2	1		
19:03	JB14480-4	1		(sample used for QC only; not part of login JB15113)
19:08	MP66440-SD1	5		
19:14	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:31	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:42	ZZZZZZ	1		
19:48	ZZZZZZ	1		
19:53	MA29320-CCV9	1		
19:59	MA29320-CCB10	1		
20:05	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:10	ZZZZZZ	1		
20:16	ZZZZZZ	1		
20:22	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:33	ZZZZZZ	1		
20:39	ZZZZZZ	1		
20:44	ZZZZZZ	1		
20:50	ZZZZZZ	1		
20:56	MA29320-CCV10	1		
21:01	MA29320-CCB11	1		
21:07	MP66431-MB1	1		
21:12	MP66431-B1	1		
21:18	MP66431-S1	1		
21:23	MP66431-S2	1		
21:29	JB14446-9	1		(sample used for QC only; not part of login JB15113)
21:34	MP66431-SD1	5		
21:40	ZZZZZZ	1		
21:46	ZZZZZZ	1		
21:51	ZZZZZZ	1		
21:57	ZZZZZZ	1		
22:02	MA29320-CCV11	1		
22:08	MA29320-CCB12	1		
22:14	MA29320-CRI4	1		
22:19	MA29320-CRID4	1		
22:25	MA29320-CRIA3	1		
22:31	ZZZZZZ	5		
22:36	ZZZZZZ	5		
22:42	MA29320-ICSA3	1		
22:48	MA29320-ICSAB3	1		
22:54	MA29320-CCV12	1		
22:59	MA29320-CCB13	1		
23:05	ZZZZZZ	1		
23:10	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:16	ZZZZZZ	1		
23:22	ZZZZZZ	1		
23:28	ZZZZZZ	1		
23:33	ZZZZZZ	1		
23:39	ZZZZZZ	1		
23:45	ZZZZZZ	1		
23:50	ZZZZZZ	1		
23:56	ZZZZZZ	1		
00:02	MA29320-CCV13	1		
00:07	MA29320-CCB14	1		
00:13	ZZZZZZ	1		
00:19	ZZZZZZ	1		
00:24	ZZZZZZ	1		
00:30	ZZZZZZ	1		
00:35	ZZZZZZ	1		
00:41	ZZZZZZ	1		
00:46	ZZZZZZ	1		
00:52	ZZZZZZ	1		
00:58	ZZZZZZ	1		
01:03	ZZZZZZ	1		
01:09	MA29320-CCV14	1		
01:14	MA29320-CCB15	1		
01:20	ZZZZZZ	1		
01:26	ZZZZZZ	1		
01:31	ZZZZZZ	1		
01:37	ZZZZZZ	1		
01:42	ZZZZZZ	1		
01:48	MP66432-MB1	1		
01:54	MP66432-B1	1		
01:59	MP66432-S1	1		
02:05	MP66432-S2	1		
02:10	MA29320-CCV15	1		
02:16	MA29320-CCB16	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:21	JB15113-3	1		
02:27	MP66432-SD1	5		
02:33	ZZZZZZ	1		
02:38	ZZZZZZ	1		
02:44	ZZZZZZ	1		
02:49	ZZZZZZ	1		
02:55	ZZZZZZ	1		
03:01	ZZZZZZ	1		
03:06	ZZZZZZ	1		
03:12	ZZZZZZ	1		
03:17	MA29320-CCV16	1		
03:23	MA29320-CCB17	1		
03:29	ZZZZZZ	1		
03:34	ZZZZZZ	1		
03:40	ZZZZZZ	1		
03:45	ZZZZZZ	1		
03:51	ZZZZZZ	1		
03:56	ZZZZZZ	1		
04:02	ZZZZZZ	1		
04:08	JB15113-1	1		
---------->	Last reportable sample/prep for job JB15113			
04:13	MA29320-CCV17	1		
04:19	MA29320-CCB18	1		
04:24	ZZZZZZ	2		
04:30	ZZZZZZ	3		
04:36	MA29320-CRIA4	1		
04:41	MA29320-CRI5	1		
04:47	MA29320-CRID5	1		
04:53	MA29320-ICSA4	1		
04:59	MA29320-ICSAB4	1		
05:04	MA29320-CCV18	1		
05:10	MA29320-CCB19	1		
---------->	Last reportable CCB for job JB15113			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:44	MA29320-STD1	2277 R	160450 R	11229 R	7017 R
10:50	MA29320-STD2	2170	148130	10713	6337
10:56	MA29320-STD3	2145	145200	10714	6123
11:01	MA29320-STD4	2079	140260	10724	5863
11:06	MA29320-CCV1	No results reported for the elements associated with this internal standard.			
11:12	MA29320-CCB1	No results reported for the elements associated with this internal standard.			
11:18	MA29320-CRI1	2201	151470	10899	6666
11:23	MA29320-CRID1	2203	152310	10950	6756
11:29	MA29320-CRIA1	2213	153720	10875	6825
11:35	MA29320-ICV1	2129	145210	10671	6091
11:45	MA29320-ICB1	2210	153540	10905	6832
11:51	MA29320-ICCV1	2127	145390	10673	6097
11:59	MA29320-CCB2	2199	153210	10729	6797
12:05	MA29320-CRI2	2183	151470	10730	6646
12:11	MA29320-CRID2	2206	152660	10817	6747
12:16	MA29320-ICSA1	1971	133350	10013	5411
12:22	MA29320-ICSAB1	1962	133220	9963	5411
12:28	MA29320-CCV2	2126	145680	10673	6072
12:33	MA29320-CCB3	2209	153920	10827	6824
12:39	MP66358-MB1	2219	155940	10914	6886
12:45	ZZZZZZ	2202	153220	10793	6647
12:50	MP66358-S1	2008	138580	10759	5629
12:56	MP66358-S2	2026	139560	10859	5678
13:01	JB14352-5	2043	140230	10910	5758
13:07	MP66358-SD1	2152	148150	10915	6337
13:13	ZZZZZZ	2001	135820	10886	5560
13:18	ZZZZZZ	2037	141170	10794	5784
13:24	ZZZZZZ	1827	124470	10836	4882 !
13:30	ZZZZZZ	2218	155230	10977	6862
13:36	MA29320-CCV3	2129	145750	10743	6083
13:41	MA29320-CCB4	2207	153820	10925	6800
13:47	ZZZZZZ	2033	141520	10684	5607
13:52	ZZZZZZ	1947	136200	10792	5548

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:58	ZZZZZZ	2203	154930	10968	6843
14:04	MP66359-MB1	2193	154630	10973	6817
14:09	MP66359-LC1	2167	151640	10905	6539
14:15	MP66359-S1	No results reported for the elements associated with this internal standard.			
14:21	MP66359-S2	No results reported for the elements associated with this internal standard.			
14:26	JB14677-4F	No results reported for the elements associated with this internal standard.			
14:32	MP66359-SD1	No results reported for the elements associated with this internal standard.			
14:38	MA29320-CCV4	2107	144990	10840	6045
14:43	MA29320-CCB5	2201	153200	10942	6786
14:49	MA29320-CRI3	2174	149390	11023	6604
14:55	ZZZZZZ	2188	152180	10998	6728
15:00	MA29320-CRIA2	2205	153440	10978	6773
15:06	MA29320-CRID3	2181	152350	10852	6709
15:12	ZZZZZZ	2183	152280	10840	6701
15:17	MA29320-ICSA2	1948	132760	10077	5357
15:23	MA29320-ICSAB2	1940	132690	9932	5351
15:29	MA29320-CCV5	2104	144700	10661	6032
15:34	MA29320-CCB6	2190	153220	10903	6772
15:40	ZZZZZZ	2175	152580	10784	6721
15:46	MP66359-S1	2057	141580	10954	5674
15:51	MP66359-S2	2042	140370	10948	5633
15:57	JB14677-4F	2076	143040	11080	5749
16:03	MP66359-SD1	2133	147930	10962	6305
16:09	ZZZZZZ	1827	128790	10254	5199
16:14	ZZZZZZ	2186	155090	10885	6797
16:20	MP66392-S1	2008	139520	10831	5654
16:26	MP66392-S2	2011	139680	10855	5653
16:31	MA29320-CCV6	2103	144730	10716	6028
16:37	MA29320-CCB7	2179	152980	10790	6732
16:42	JB14453-2F	2022	138970	11023	5709
16:48	MP66392-SD1	2118	146620	10887	6295
16:54	ZZZZZZ	2167	152940	11056	6742
16:59	MP66362-SD1	2189	150320	10850	6335

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:05	ZZZZZZ	2174	153370	10919	6755
17:11	ZZZZZZ	2119	147490	10820	6499
17:16	ZZZZZZ	1996	140340	10566	5827
17:22	ZZZZZZ	2053	143910	10722	6043
17:27	ZZZZZZ	2184	150070	10968	6215
17:33	ZZZZZZ	2134	148700	10947	6098
17:39	MA29320-CCV7	2082	143920	10636	5982
17:44	MA29320-CCB8	2172	151750	10846	6720
17:50	ZZZZZZ	2171	154230	10878	6732
17:55	ZZZZZZ	2277	156530	11530	5995
18:01	ZZZZZZ	2197	153400	11213	6396
18:06	ZZZZZZ	2159	152920	10772	6713
18:12	ZZZZZZ	1953	141100	10676	5855
18:18	ZZZZZZ	2159	150980	11106	6106
18:23	ZZZZZZ	1908	131040	10771	5236
18:29	MP66440-MB1	2159	153580	10830	6721
18:35	MP66440-LC1	No results reported for the elements associated with this internal standard.			
18:40	MP66440-S1	1952	136520	10554	5525
18:46	MA29320-CCV8	2086	144130	10422	5984
18:51	MA29320-CCB9	2176	152090	10822	6713
18:57	MP66440-S2	1963	137720	10583	5556
19:03	JB14480-4	1983	139110	10598	5679
19:08	MP66440-SD1	2096	146240	10824	6282
19:14	ZZZZZZ	2043	142580	10653	5887
19:19	ZZZZZZ	1967	137900	10707	5615
19:25	ZZZZZZ	1984	139550	10577	5672
19:31	ZZZZZZ	2054	144220	10805	5993
19:36	ZZZZZZ	2146	150720	10848	6550
19:42	ZZZZZZ	1984	138880	10700	5662
19:48	ZZZZZZ	No results reported for the elements associated with this internal standard.			
19:53	MA29320-CCV9	2084	144190	10630	5969
19:59	MA29320-CCB10	2177	152460	10798	6678
20:05	ZZZZZZ	2138	150670	10761	6511

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:10	ZZZZZZ	2136	150360	10814	6487
20:16	ZZZZZZ	2033	140950	10788	5751
20:22	ZZZZZZ	1996	140190	10749	5674
20:27	ZZZZZZ	1989	140140	10737	5718
20:33	ZZZZZZ	2048	143820	10694	5939
20:39	ZZZZZZ	2075	145960	10566	6077
20:44	ZZZZZZ	2157	152660	10873	6683
20:50	ZZZZZZ	2157	152940	10789	6710
20:56	MA29320-CCV10	2096	144250	10664	5973
21:01	MA29320-CCB11	2173	152400	10845	6689
21:07	MP66431-MB1	2148	153010	10772	6688
21:12	MP66431-B1	2153	149390	10704	6318
21:18	MP66431-S1	2155	149670	10742	6265
21:23	MP66431-S2	2165	150060	10742	6269
21:29	JB14446-9	2182	152330	10864	6455
21:34	MP66431-SD1	2181	152990	10844	6613
21:40	ZZZZZZ	2169	152340	10868	6611
21:46	ZZZZZZ	2161	151590	10841	6554
21:51	ZZZZZZ	2153	150610	10799	6483
21:57	ZZZZZZ	2162	150590	10847	6336
22:02	MA29320-CCV11	2088	143630	10544	5952
22:08	MA29320-CCB12	2169	151900	10727	6682
22:14	MA29320-CRI4	2142	149770	10691	6495
22:19	MA29320-CRID4	2168	151390	10675	6618
22:25	MA29320-CRIA3	2170	152000	10795	6670
22:31	ZZZZZZ	2150	150050	10833	6513
22:36	ZZZZZZ	2170	151750	10752	6643
22:42	MA29320-ICSA3	1936	132160	9898	5289
22:48	MA29320-ICSAB3	1929	132230	9867	5290
22:54	MA29320-CCV12	2097	144480	10556	5967
22:59	MA29320-CCB13	2176	152690	10749	6690
23:05	ZZZZZZ	2209	142950	9636	5899
23:10	ZZZZZZ	2133	148500	10726	6615

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:16	ZZZZZZ	1975	137060	10742	5631
23:22	ZZZZZZ	1983	137370	10635	5642
23:28	ZZZZZZ	2193	152970	10910	6678
23:33	ZZZZZZ	2182	152340	10813	6658
23:39	ZZZZZZ	2183	152910	10779	6674
23:45	ZZZZZZ	2183	152000	10777	6639
23:50	ZZZZZZ	2179	152610	10708	6694
23:56	ZZZZZZ	2186	152480	10716	6695
00:02	MA29320-CCV13	2103	144720	10454	5957
00:07	MA29320-CCB14	2180	151880	10361	6666
00:13	ZZZZZZ	2180	151260	10664	6360
00:19	ZZZZZZ	2188	152140	10663	6475
00:24	ZZZZZZ	2219	152620	10719	6291
00:30	ZZZZZZ	2220	152870	10702	6320
00:35	ZZZZZZ	2210	154970	10789	6253
00:41	ZZZZZZ	2221	153080	10690	6291
00:46	ZZZZZZ	2139	147420	10368	5962
00:52	ZZZZZZ	2206	151890	10647	6242
00:58	ZZZZZZ	2208	152010	10525	6292
01:03	ZZZZZZ	2211	152100	10561	6288
01:09	MA29320-CCV14	2105	144580	10368	5929
01:14	MA29320-CCB15	2188	152830	10445	6669
01:20	ZZZZZZ	2215	152480	10632	6298
01:26	ZZZZZZ	2195	152870	10519	6248
01:31	ZZZZZZ	2211	151890	10640	6279
01:37	ZZZZZZ	2173	152760	10612	6342
01:42	ZZZZZZ	2193	153360	10552	6309
01:48	MP66432-MB1	2168	152810	10655	6658
01:54	MP66432-B1	2164	150220	10511	6297
01:59	MP66432-S1	2056	140100	9859	5486
02:05	MP66432-S2	2066	140840	9956	5554
02:10	MA29320-CCV15	2114	145760	10357	5947
02:16	MA29320-CCB16	2201	153530	10514	6684

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:21	JB15113-3	2041	140010	10177	5459
02:27	MP66432-SD1	2129	147490	10412	6086
02:33	ZZZZZZ	2203	154190	10687	6372
02:38	ZZZZZZ	2195	153470	10538	6382
02:44	ZZZZZZ	2197	153340	10669	6358
02:49	ZZZZZZ	2192	154100	10623	6320
02:55	ZZZZZZ	2206	153810	10619	6311
03:01	ZZZZZZ	2191	153380	10652	6291
03:06	ZZZZZZ	2200	154040	10650	6377
03:12	ZZZZZZ	2207	153970	10637	6310
03:17	MA29320-CCV16	2114	145390	10267	5950
03:23	MA29320-CCB17	2206	153450	10566	6687
03:29	ZZZZZZ	2221	154440	10640	6349
03:34	ZZZZZZ	2232	153940	10789	6212
03:40	ZZZZZZ	2253	155550	10756	6230
03:45	ZZZZZZ	2228	153150	10696	6137
03:51	ZZZZZZ	2269	154330	10536	6221
03:56	ZZZZZZ	2252	152690	10531	6230
04:02	ZZZZZZ	2279	157340	10980	6190
04:08	JB15113-1	2217	153130	10765	6231
04:13	MA29320-CCV17	2126	145980	10346	5960
04:19	MA29320-CCB18	2208	154500	10530	6714
04:24	ZZZZZZ	2188	152330	10476	6523
04:30	ZZZZZZ	2201	153400	10560	6659
04:36	MA29320-CRIA4	2210	154320	10522	6692
04:41	MA29320-CRI5	2184	152160	10575	6535
04:47	MA29320-CRID5	2201	153750	10500	6663
04:53	MA29320-ICSA4	1965	133960	9571	5298
04:59	MA29320-ICSAB4	1955	133610	9613	5302
05:04	MA29320-CCV18	2126	146460	10368	5971
05:10	MA29320-CCB19	2210	154450	10545	6700

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %

INTERNAL STANDARD SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29320
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4

Istd#4	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

9.2.1

9

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			11:45		11:59		12:33		13:41	
Sample ID:			ICB1		CCB2		CCB3		CCB4	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	9.8	<200	-5.1	<200	30.2	<200	-3.4	<200
Antimony	6.0	1.2	1.3	<6.0	1.0	<6.0	1.5	<6.0	0.40	<6.0
Arsenic	3.0	.8	0.80	<3.0	1.2	<3.0	1.3	<3.0	0.0	<3.0
Barium	200	.4	0.60	<200	0.80	<200	1.0	<200	0.20	<200
Beryllium	1.0	.09	0.90	<1.0	0.50	<1.0	0.60	<1.0	0.20	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.60	<3.0	0.60	<3.0	1.0	<3.0	0.0	<3.0
Calcium	5000	23	14.5	<5000	6.5	<5000	31.5	<5000	0.80	<5000
Chromium	10	.4	0.20	<10	0.20	<10	0.40	<10	0.0	<10
Cobalt	50	.4	0.90	<50	0.70	<50	1.1	<50	0.20	<50
Copper	10	.6	1.3	<10	1.4	<10	1.5	<10	0.30	<10
Iron	100	4.2	14.8	<100	8.9	<100	18.2	<100	2.0	<100
Lead	3.0	1	0.20	<3.0	0.0	<3.0	0.80	<3.0	-0.50	<3.0
Lithium	20	1.4								
Magnesium	5000	28	28.5	<5000	4.1	<5000	37.6	<5000	10.2	<5000
Manganese	15	.2	0.90	<15	0.50	<15	1.0	<15	0.10	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.70	<10	0.40	<10	1.2	<10	0.0	<10
Palladium	50	1.3								
Potassium	10000	51	78.7	<10000	121	<10000	89.5	<10000	99.8	<10000
Selenium	10	1.6	2.0	<10	2.8	<10	1.8	<10	1.1	<10
Silicon	200	10								
Silver	10	.6	0.20	<10	0.0	<10	0.30	<10	0.20	<10
Sodium	10000	15	29.9	<10000	32.0	<10000	49.3	<10000	113	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	0.10	<2.0	1.6	<2.0	0.80	<2.0	0.50	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.90	<50	0.90	<50	1.3	<50	0.30	<50
Zinc	20	1.9	0.80	<20	0.40	<20	1.1	<20	0.0	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			11:45		11:59		12:33		13:41	
Sample ID:			ICB1		CCB2		CCB3		CCB4	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

9.2.2
9

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			14:43		15:34		16:37		17:44	
Sample ID:			CCB5		CCB6		CCB7		CCB8	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	-0.20	<200	25.9	<200	14.3	<200	12.8	<200
Antimony	6.0	1.2	0.90	<6.0	1.0	<6.0	0.80	<6.0	0.20	<6.0
Arsenic	3.0	.8	0.40	<3.0	0.80	<3.0	-0.30	<3.0	0.10	<3.0
Barium	200	.4	0.10	<200	0.50	<200	0.20	<200	0.60	<200
Beryllium	1.0	.09	0.10	<1.0	0.60	<1.0	0.30	<1.0	0.40	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.70	<3.0	1.2	<3.0	0.20	<3.0	0.60	<3.0
Calcium	5000	23	-3.8	<5000	28.3	<5000	5.3	<5000	6.4	<5000
Chromium	10	.4	-0.40	<10	0.50	<10	-0.20	<10	0.10	<10
Cobalt	50	.4	0.90	<50	1.3	<50	0.30	<50	0.70	<50
Copper	10	.6	0.0	<10	1.2	<10	0.20	<10	0.90	<10
Iron	100	4.2	0.50	<100	18.3	<100	7.4	<100	9.5	<100
Lead	3.0	1	0.40	<3.0	0.70	<3.0	-0.80	<3.0	0.40	<3.0
Lithium	20	1.4								
Magnesium	5000	28	14.8	<5000	32.3	<5000	6.1	<5000	-0.60	<5000
Manganese	15	.2	0.30	<15	1.2	<15	0.20	<15	0.90	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.80	<10	1.1	<10	0.20	<10	0.60	<10
Palladium	50	1.3								
Potassium	10000	51	98.0	<10000	62.2	<10000	79.7	<10000	85.3	<10000
Selenium	10	1.6	1.6	<10	2.2	<10	1.6	<10	2.3	<10
Silicon	200	10								
Silver	10	.6	-0.10	<10	0.20	<10	-0.10	<10	0.20	<10
Sodium	10000	15	136	<10000	65.2	<10000	129	<10000	51.3	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	1.1	<2.0	1.6	<2.0	-0.70	<2.0	0.80	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.30	<50	1.2	<50	0.40	<50	0.90	<50
Zinc	20	1.9	0.60	<20	1.2	<20	0.10	<20	0.60	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			14:43		15:34		16:37		17:44	
Sample ID:			CCB5		CCB6		CCB7		CCB8	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			18:51		19:59		21:01		22:08	
Sample ID:			CCB9		CCB10		CCB11		CCB12	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	10.9	<200	-3.6	<200	-6.9	<200	5.1	<200
Antimony	6.0	1.2	0.40	<6.0	0.10	<6.0	0.50	<6.0	1.2	<6.0
Arsenic	3.0	.8	-0.10	<3.0	-1.0	<3.0	-0.10	<3.0	0.50	<3.0
Barium	200	.4	0.20	<200	0.0	<200	0.10	<200	0.10	<200
Beryllium	1.0	.09	0.30	<1.0	0.10	<1.0	0.30	<1.0	0.40	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.20	<3.0	0.0	<3.0	0.50	<3.0	0.70	<3.0
Calcium	5000	23	2.9	<5000	-9.9	<5000	-3.9	<5000	0.20	<5000
Chromium	10	.4	-0.50	<10	-0.40	<10	-0.10	<10	0.0	<10
Cobalt	50	.4	0.40	<50	0.10	<50	0.40	<50	0.70	<50
Copper	10	.6	0.50	<10	-0.30	<10	0.20	<10	0.50	<10
Iron	100	4.2	8.9	<100	-2.4	<100	3.3	<100	5.4	<100
Lead	3.0	1	0.10	<3.0	-0.10	<3.0	0.10	<3.0	0.40	<3.0
Lithium	20	1.4								
Magnesium	5000	28	20.9	<5000	3.8	<5000	-2.3	<5000	-13	<5000
Manganese	15	.2	0.30	<15	0.0	<15	0.40	<15	0.50	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.0	<10	-0.20	<10	0.50	<10	0.60	<10
Palladium	50	1.3								
Potassium	10000	51	75.3	<10000	61.0	<10000	63.9	<10000	67.3	<10000
Selenium	10	1.6	2.4	<10	0.40	<10	1.4	<10	1.2	<10
Silicon	200	10								
Silver	10	.6	-0.20	<10	0.0	<10	-0.10	<10	0.0	<10
Sodium	10000	15	84.9	<10000	77.1	<10000	59.4	<10000	37.4	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	0.20	<2.0	-1.2	<2.0	-0.10	<2.0	0.60	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.40	<50	0.10	<50	0.40	<50	0.50	<50
Zinc	20	1.9	0.30	<20	-0.10	<20	0.40	<20	0.60	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			18:51		19:59		21:01		22:08	
Sample ID:			CCB9		CCB10		CCB11		CCB12	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			22:59		00:07		01:14		02:16	
Sample ID:			CCB13		CCB14		CCB15		CCB16	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	18.6	<200	23.7	<200	17.1	<200	15.8	<200
Antimony	6.0	1.2	2.0	<6.0	1.1	<6.0	0.70	<6.0	1.6	<6.0
Arsenic	3.0	.8	1.1	<3.0	0.50	<3.0	0.80	<3.0	0.80	<3.0
Barium	200	.4	0.60	<200	0.80	<200	1.2	<200	0.90	<200
Beryllium	1.0	.09	0.80	<1.0	0.90	<1.0	1.0	<1.0*(a)	0.90	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	1.1	<3.0	1.1	<3.0	1.0	<3.0	0.90	<3.0
Calcium	5000	23	16.4	<5000	18.0	<5000	14.3	<5000	8.7	<5000
Chromium	10	.4	0.70	<10	1.0	<10	0.90	<10	0.30	<10
Cobalt	50	.4	1.5	<50	1.2	<50	1.3	<50	1.1	<50
Copper	10	.6	1.4	<10	1.0	<10	1.2	<10	0.80	<10
Iron	100	4.2	14.9	<100	18.9	<100	19.4	<100	17.7	<100
Lead	3.0	1	0.30	<3.0	0.90	<3.0	0.70	<3.0	1.1	<3.0
Lithium	20	1.4								
Magnesium	5000	28	37.6	<5000	18.6	<5000	15.7	<5000	10.7	<5000
Manganese	15	.2	1.6	<15	1.4	<15	1.5	<15	1.3	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	1.2	<10	1.1	<10	1.0	<10	0.90	<10
Palladium	50	1.3								
Potassium	10000	51	62.2	<10000	74.0	<10000	89.9	<10000	111	<10000
Selenium	10	1.6	3.0	<10	0.70	<10	2.2	<10	1.4	<10
Silicon	200	10								
Silver	10	.6	0.30	<10	0.0	<10	0.0	<10	-0.10	<10
Sodium	10000	15	55.4	<10000	97.5	<10000	46.3	<10000	37.4	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	0.70	<2.0	0.80	<2.0	1.1	<2.0	1.0	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	1.7	<50	1.4	<50	1.4	<50	1.3	<50
Zinc	20	1.9	1.1	<20	1.0	<20	0.90	<20	0.80	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			22:59		00:07		01:14		02:16	
Sample ID:			CCB13		CCB14		CCB15		CCB16	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No AQ samples reported for this element in the area bracketed by this QC.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			03:23		04:19		05:10	
Sample ID:			CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	10	-3.7	<200	3.6	<200	4.4	<200
Antimony	6.0	1.2	0.60	<6.0	1.3	<6.0	1.8	<6.0
Arsenic	3.0	.8	-0.60	<3.0	0.50	<3.0	0.90	<3.0
Barium	200	.4	0.40	<200	0.60	<200	1.0	<200
Beryllium	1.0	.09	0.30	<1.0	0.60	<1.0	0.70	<1.0
Bismuth	20	1.6						
Boron	100	1.2						
Cadmium	3.0	.2	0.20	<3.0	0.80	<3.0	1.0	<3.0
Calcium	5000	23	-5.1	<5000	-1.0	<5000	5.3	<5000
Chromium	10	.4	-0.60	<10	-0.40	<10	0.20	<10
Cobalt	50	.4	0.20	<50	0.80	<50	1.1	<50
Copper	10	.6	-0.10	<10	0.40	<10	0.40	<10
Iron	100	4.2	1.8	<100	9.0	<100	14.4	<100
Lead	3.0	1	-0.30	<3.0	0.0	<3.0	1.4	<3.0
Lithium	20	1.4						
Magnesium	5000	28	-12	<5000	8.8	<5000	18.1	<5000
Manganese	15	.2	0.10	<15	0.70	<15	0.90	<15
Molybdenum	20	.3	anr					
Nickel	10	.4	0.10	<10	0.80	<10	1.0	<10
Palladium	50	1.3						
Potassium	10000	51	108	<10000	79.0	<10000	71.1	<10000
Selenium	10	1.6	1.5	<10	1.7	<10	2.4	<10
Silicon	200	10						
Silver	10	.6	-0.10	<10	-0.20	<10	-0.10	<10
Sodium	10000	15	14.3	<10000	27.3	<10000	34.7	<10000
Sulfur	50	2.8						
Strontium	10	.2						
Thallium	2.0	1.4	0.60	<2.0	-0.10	<2.0	-0.10	<2.0
Tin	10	.7						
Titanium	10	.6						
Tungsten	50	4.1						
Vanadium	50	.3	0.40	<50	0.70	<50	1.0	<50
Zinc	20	1.9	0.0	<20	0.70	<20	0.80	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29320 Units: ug/l

Time:			03:23		04:19		05:10	
Sample ID:			CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.3						

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		11:51	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	40200	100.5
Antimony	2000	2010	100.5
Arsenic	2000	2000	100.0
Barium	2000	1990	99.5
Beryllium	2000	2010	100.5
Bismuth			
Boron			
Cadmium	2000	2000	100.0
Calcium	40000	39900	99.8
Chromium	2000	1980	99.0
Cobalt	2000	2020	101.0
Copper	2000	1970	98.5
Iron	40000	40500	101.3
Lead	2000	2000	100.0
Lithium			
Magnesium	40000	39400	98.5
Manganese	2000	2010	100.5
Molybdenum	anr		
Nickel	2000	2010	100.5
Palladium			
Potassium	40000	40200	100.5
Selenium	2000	2000	100.0
Silicon			
Silver	250	246	98.4
Sodium	40000	39700	99.3
Sulfur			
Strontium			
Thallium	2000	2030	101.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	1960	98.0
Zinc	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		11:51	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		11:35			12:28			13:36	
Sample ID:	ICV	ICV1		CCV	CCV2		CCV	CCV3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	40500	101.3	40000	40400	101.0
Antimony	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Arsenic	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Barium	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Beryllium	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Calcium	40000	40000	100.0	40000	40300	100.8	40000	40100	100.3
Chromium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Cobalt	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Copper	2000	1980	99.0	2000	1980	99.0	2000	1990	99.5
Iron	40000	40300	100.8	40000	40700	101.8	40000	40500	101.3
Lead	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Lithium									
Magnesium	40000	39600	99.0	40000	39700	99.3	40000	39400	98.5
Manganese	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Molybdenum	anr								
Nickel	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	39900	99.8	40000	40400	101.0	40000	40300	100.8
Selenium	2000	2000	100.0	2000	2020	101.0	2000	2010	100.5
Silicon									
Silver	250	247	98.8	250	248	99.2	250	248	99.2
Sodium	40000	39700	99.3	40000	39900	99.8	40000	39800	99.5
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Zinc	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		11:35			12:28			13:36	
Sample ID:	ICV	ICV1		CCV	CCV2		CCV	CCV3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		14:38			15:29			16:31	
Sample ID:	CCV	CCV4		CCV	CCV5		CCV	CCV6	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40500	101.3	40000	40600	101.5
Antimony	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Arsenic	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Barium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Beryllium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Calcium	40000	39600	99.0	40000	40100	100.3	40000	40100	100.3
Chromium	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Cobalt	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0
Copper	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Iron	40000	40200	100.5	40000	40500	101.3	40000	40700	101.8
Lead	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Lithium									
Magnesium	40000	39100	97.8	40000	39600	99.0	40000	39400	98.5
Manganese	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	40100	100.3	40000	40300	100.8	40000	40400	101.0
Selenium	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Silicon									
Silver	250	248	99.2	250	249	99.6	250	249	99.6
Sodium	40000	39600	99.0	40000	39900	99.8	40000	39800	99.5
Sulfur									
Strontium									
Thallium	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1970	98.5	2000	1970	98.5	2000	1970	98.5
Zinc	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		14:38			15:29			16:31	
Sample ID:	CCV	CCV4		CCV	CCV5		CCV	CCV6	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		17:39			18:46			19:53	
Sample ID:	CCV	CCV7		CCV	CCV8		CCV	CCV9	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	41500	103.8	40000	40800	102.0
Antimony	2000	2060	103.0	2000	2070	103.5	2000	2070	103.5
Arsenic	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Barium	2000	2020	101.0	2000	2050	102.5	2000	2030	101.5
Beryllium	2000	2030	101.5	2000	2060	103.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Calcium	40000	39800	99.5	40000	40700	101.8	40000	40000	100.0
Chromium	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Cobalt	2000	2040	102.0	2000	2050	102.5	2000	2040	102.0
Copper	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Iron	40000	40400	101.0	40000	41400	103.5	40000	40500	101.3
Lead	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Lithium									
Magnesium	40000	39400	98.5	40000	39900	99.8	40000	39500	98.8
Manganese	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Molybdenum	anr								
Nickel	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0
Palladium									
Potassium	40000	40500	101.3	40000	41300	103.3	40000	40800	102.0
Selenium	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Silicon									
Silver	250	249	99.6	250	250	100.0	250	250	100.0
Sodium	40000	40200	100.5	40000	40700	101.8	40000	40400	101.0
Sulfur									
Strontium									
Thallium	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1960	98.0	2000	1960	98.0	2000	1960	98.0
Zinc	2000	1980	99.0	2000	2000	100.0	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		17:39			18:46			19:53	
Sample ID:	CCV	CCV7		CCV	CCV8		CCV	CCV9	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		20:56			22:02			22:54	
Sample ID:	CCV	CCV10		CCV	CCV11		CCV	CCV12	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	40800	102.0	40000	40700	101.8
Antimony	2000	2060	103.0	2000	2070	103.5	2000	2060	103.0
Arsenic	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Barium	2000	2030	101.5	2000	2030	101.5	2000	2020	101.0
Beryllium	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Calcium	40000	39800	99.5	40000	40100	100.3	40000	39900	99.8
Chromium	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Cobalt	2000	2040	102.0	2000	2040	102.0	2000	2030	101.5
Copper	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Iron	40000	40500	101.3	40000	40700	101.8	40000	40400	101.0
Lead	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Lithium									
Magnesium	40000	39200	98.0	40000	39600	99.0	40000	39400	98.5
Manganese	2000	2040	102.0	2000	2040	102.0	2000	2030	101.5
Molybdenum	anr								
Nickel	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Palladium									
Potassium	40000	40600	101.5	40000	40800	102.0	40000	40600	101.5
Selenium	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Silicon									
Silver	250	250	100.0	250	250	100.0	250	250	100.0
Sodium	40000	40200	100.5	40000	40400	101.0	40000	40200	100.5
Sulfur									
Strontium									
Thallium	2000	2090	104.5	2000	2100	105.0	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1960	98.0	2000	1970	98.5	2000	1950	97.5
Zinc	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		20:56			22:02			22:54	
Sample ID:	CCV	CCV10		CCV	CCV11		CCV	CCV12	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

9.2.4

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		00:02			01:09			02:10	
Sample ID:	CCV	CCV13		CCV	CCV14		CCV	CCV15	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41000	102.5	40000	41000	102.5	40000	41100	102.8
Antimony	2000	2070	103.5	2000	2080	104.0	2000	2080	104.0
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Barium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Beryllium	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Calcium	40000	40100	100.3	40000	40300	100.8	40000	40300	100.8
Chromium	2000	2020	101.0	2000	2040	102.0	2000	2030	101.5
Cobalt	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Copper	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Iron	40000	40700	101.8	40000	40500	101.3	40000	40700	101.8
Lead	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Lithium									
Magnesium	40000	39600	99.0	40000	39900	99.8	40000	39700	99.3
Manganese	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Molybdenum	anr								
Nickel	2000	2060	103.0	2000	2080	104.0	2000	2080	104.0
Palladium									
Potassium	40000	41100	102.8	40000	41200	103.0	40000	41400	103.5
Selenium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Silicon									
Silver	250	249	99.6	250	251	100.4	250	249	99.6
Sodium	40000	40500	101.3	40000	40700	101.8	40000	40600	101.5
Sulfur									
Strontium									
Thallium	2000	2120	106.0	2000	2150	107.5	2000	2150	107.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1940	97.0	2000	1950	97.5	2000	1920	96.0
Zinc	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		00:02			01:09			02:10	
Sample ID:	CCV	CCV13		CCV	CCV14		CCV	CCV15	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

9.2.4

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		03:17			04:13			05:04	
Sample ID:	CCV	CCV16		CCV	CCV17		CCV	CCV18	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41200	103.0	40000	40900	102.3	40000	40800	102.0
Antimony	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Barium	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Beryllium	2000	2010	100.5	2000	1990	99.5	2000	1990	99.5
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Calcium	40000	40500	101.3	40000	40100	100.3	40000	39900	99.8
Chromium	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Cobalt	2000	2020	101.0	2000	2000	100.0	2000	2010	100.5
Copper	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Iron	40000	40800	102.0	40000	40400	101.0	40000	40300	100.8
Lead	2000	2040	102.0	2000	2030	101.5	2000	2030	101.5
Lithium									
Magnesium	40000	39800	99.5	40000	39400	98.5	40000	39300	98.3
Manganese	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5
Molybdenum	anr								
Nickel	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Palladium									
Potassium	40000	41500	103.8	40000	41200	103.0	40000	41000	102.5
Selenium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Silicon									
Silver	250	249	99.6	250	248	99.2	250	247	98.8
Sodium	40000	40600	101.5	40000	40400	101.0	40000	40200	100.5
Sulfur									
Strontium									
Thallium	2000	2140	107.0	2000	2140	107.0	2000	2140	107.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1910	95.5	2000	1910	95.5	2000	1900	95.0
Zinc	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29320 Units: ug/l

Time:		03:17			04:13			05:04	
Sample ID:	CCV	CCV16		CCV	CCV17		CCV	CCV18	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				11:18		11:23		11:29	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	207	103.5	93.6	93.6	472	94.4
Antimony	6.0	20	3.0	6.8	113.3			19.4	97.0
Arsenic	8.0	20	3.0	8.6	107.5	2.8	93.3	18.0	90.0
Barium	200		4.0	194	97.0	3.8	95.0		
Beryllium	2.0		1.0	2.2	110.0	1.1	110.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	2.9	96.7	0.90	90.0		
Calcium	5000		1000	5070	101.4	992	99.2		
Chromium	10		2.0	10.7	107.0				
Cobalt	50		3.0	55.7	111.4	3.5	116.7		
Copper	10		2.0	11.6	116.0	2.0	100.0		
Iron	100	500		104	104.0			462	92.4
Lead	3.0	20	2.5	3.0	100.0			18.2	91.0
Lithium	20								
Magnesium	5000		100	4930	98.6	107	107.0		
Manganese	15		3.0	15.9	106.0	3.2	106.7		
Molybdenum	20		4.0	anr					
Nickel	10		4.0	10.6	106.0	4.0	100.0		
Palladium	50								
Potassium	5000		2000	4800	96.0	1980	99.0		
Selenium	10	20	5.0	11.1	111.0	5.3	106.0	19.1	95.5
Silicon	200								
Silver	5.0		1.0	5.0	100.0	0.90	90.0		
Sodium	5000		1000	4840	96.8	969	96.9		
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	11.1	111.0	1.5	75.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	51.5	103.0	2.3	115.0		
Zinc	20		10	21.8	109.0	10.3	103.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				11:18		11:23		11:29	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10		5.0						

(*) Outside of QC limits
(anr) Analyte not requested

9.2.5

9

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				12:05		12:11		14:49	
Sample ID:	CRI	CRIA	CRID	CRI2		CRID2		CRI3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	215	107.5	97.9	97.9	206	103.0
Antimony	6.0	20	3.0	6.5	108.3			6.6	110.0
Arsenic	8.0	20	3.0	8.8	110.0	3.0	100.0	7.3	91.3
Barium	200		4.0	194	97.0	3.5	87.5	195	97.5
Beryllium	2.0		1.0	2.2	110.0	1.1	110.0	2.1	105.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	2.7	90.0	1.0	100.0	2.9	96.7
Calcium	5000		1000	5110	102.2	1000	100.0	4990	99.8
Chromium	10		2.0	10.6	106.0			10.7	107.0
Cobalt	50		3.0	55.6	111.2	3.4	113.3	55.8	111.6
Copper	10		2.0	11.6	116.0	2.3	115.0	11.0	110.0
Iron	100	500		109	109.0			106	106.0
Lead	3.0	20	2.5	2.6	86.7			2.6	86.7
Lithium	20								
Magnesium	5000		100	4900	98.0	87.7	87.7	4860	97.2
Manganese	15		3.0	15.9	106.0	3.2	106.7	16.1	107.3
Molybdenum	20		4.0	anr					
Nickel	10		4.0	10.6	106.0	4.2	105.0	10.4	104.0
Palladium	50								
Potassium	5000		2000	4920	98.4	1990	99.5	4770	95.4
Selenium	10	20	5.0	12.0	120.0	5.0	100.0	11.3	113.0
Silicon	200								
Silver	5.0		1.0	4.8	96.0	0.80	80.0	5.0	100.0
Sodium	5000		1000	4870	97.4	980	98.0	4920	98.4
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	10.4	104.0	2.3	115.0	11.6	116.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	50.7	101.4	2.2	110.0	52.3	104.6
Zinc	20		10	21.5	107.5	10.1	101.0	21.6	108.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				12:05		12:11		14:49	
Sample ID:	CRI	CRIA	CRID	CRI2		CRID2		CRI3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10		5.0						

(*) Outside of QC limits
(anr) Analyte not requested

9.2.5

9

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				15:00		15:06		22:14	
Sample ID:	CRI	CRIA	CRID	CRIA2		CRID3		CRI4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	472	94.4	88.6	88.6	205	102.5
Antimony	6.0	20	3.0	18.7	93.5			6.4	106.7
Arsenic	8.0	20	3.0	17.8	89.0	3.1	103.3	8.5	106.3
Barium	200		4.0			3.9	97.5	197	98.5
Beryllium	2.0		1.0			1.1	110.0	2.2	110.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0			0.90	90.0	2.9	96.7
Calcium	5000		1000			994	99.4	5090	101.8
Chromium	10		2.0					10.5	105.0
Cobalt	50		3.0			3.3	110.0	56.5	113.0
Copper	10		2.0			1.9	95.0	11.4	114.0
Iron	100	500		458	91.6			108	108.0
Lead	3.0	20	2.5	17.7	88.5			2.8	93.3
Lithium	20								
Magnesium	5000		100			101	101.0	4880	97.6
Manganese	15		3.0			3.2	106.7	16.2	108.0
Molybdenum	20		4.0						
Nickel	10		4.0			4.2	105.0	10.9	109.0
Palladium	50								
Potassium	5000		2000			2000	100.0	4960	99.2
Selenium	10	20	5.0	19.3	96.5	4.6	92.0	11.1	111.0
Silicon	200								
Silver	5.0		1.0			0.90	90.0	5.1	102.0
Sodium	5000		1000			1040	104.0	4970	99.4
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0			2.5	125.0	10.9	109.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0			2.1	105.0	50.9	101.8
Zinc	20		10			10.0	100.0	21.7	108.5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				15:00		15:06		22:14	
Sample ID:	CRI	CRIA	CRID	CRIA2		CRID3		CRI4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10		5.0						

(*) Outside of QC limits
(anr) Analyte not requested

9.2.5

9

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				22:19		22:25		04:36	
Sample ID:	CRI	CRIA	CRID	CRID4		CRIA3		CRIA4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	93.7	93.7	470	94.0	478	95.6
Antimony	6.0	20	3.0			20.1	100.5	20.0	100.0
Arsenic	8.0	20	3.0	2.6	86.7	17.0	85.0	18.0	90.0
Barium	200		4.0	3.9	97.5				
Beryllium	2.0		1.0	1.2	120.0				
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	1.1	110.0				
Calcium	5000		1000	998	99.8				
Chromium	10		2.0						
Cobalt	50		3.0	3.4	113.3				
Copper	10		2.0	1.8	90.0				
Iron	100	500				460	92.0	462	92.4
Lead	3.0	20	2.5			18.4	92.0	18.5	92.5
Lithium	20								
Magnesium	5000		100	116	116.0				
Manganese	15		3.0	3.3	110.0				
Molybdenum	20		4.0						
Nickel	10		4.0	4.2	105.0				
Palladium	50								
Potassium	5000		2000	2020	101.0				
Selenium	10	20	5.0	4.9	98.0	19.1	95.5	19.6	98.0
Silicon	200								
Silver	5.0		1.0	0.90	90.0				
Sodium	5000		1000	1000	100.0				
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	2.1	105.0				
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	2.2	110.0				
Zinc	20		10	10.0	100.0				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				22:19		22:25		04:36	
Sample ID:	CRI	CRIA	CRID	CRID4		CRIA3		CRIA4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10		5.0						

(*) Outside of QC limits
(anr) Analyte not requested

9.2.5

9

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				04:41		04:47	
Sample ID:	CRI	CRIA	CRID	CRI5		CRID5	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	195	97.5	91.6	91.6
Antimony	6.0	20	3.0	6.7	111.7		
Arsenic	8.0	20	3.0	7.1	88.8	2.2	73.3
Barium	200		4.0	196	98.0	4.2	105.0
Beryllium	2.0		1.0	2.2	110.0	1.2	120.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	2.9	96.7	1.0	100.0
Calcium	5000		1000	5060	101.2	991	99.1
Chromium	10		2.0	10.3	103.0		
Cobalt	50		3.0	55.7	111.4	3.3	110.0
Copper	10		2.0	10.6	106.0	1.5	75.0
Iron	100	500		109	109.0		
Lead	3.0	20	2.5	3.5	116.7		
Lithium	20						
Magnesium	5000		100	4870	97.4	111	111.0
Manganese	15		3.0	16.1	107.3	3.3	110.0
Molybdenum	20		4.0	anr			
Nickel	10		4.0	10.7	107.0	4.1	102.5
Palladium	50						
Potassium	5000		2000	4950	99.0	2050	102.5
Selenium	10	20	5.0	10.8	108.0	4.2	84.0
Silicon	200						
Silver	5.0		1.0	5.0	100.0	0.70	70.0
Sodium	5000		1000	4950	99.0	993	99.3
Sulfur	50	50	50				
Strontium	10						
Thallium	10		2.0	10.6	106.0	1.5	75.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	49.9	99.8	2.0	100.0
Zinc	20		10	21.4	107.0	10.1	101.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29320 Units: ug/l

Time:				04:41		04:47	
Sample ID:	CRI	CRIA	CRID	CRI5		CRID5	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10		5.0				

(*) Outside of QC limits
(anr) Analyte not requested

9.2.5

9

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29320 Units: ug/l

Time:			12:16		12:22		15:17		15:23	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	524000	104.8	515000	103.0	520000	104.0	513000	102.6
Antimony		1000	2.7		1050	105.0	1.2		1060	106.0
Arsenic		1000	5.0		993	99.3	3.3		996	99.6
Barium		500	-0.50		518	103.6	-0.70		522	104.4
Beryllium		500	0.10		496	99.2	0.10		497	99.4
Bismuth		500	3.7		515	103.0	2.2		520	104.0
Boron			-8.1		-9.1		-11		-9.9	
Cadmium		1000	3.0		1010	101.0	3.0		1020	102.0
Calcium	400000	400000	386000	96.5	403000	100.8	381000	95.3	401000	100.3
Chromium		500	-1.2		452	90.4	-1.5		452	90.4
Cobalt		500	2.6		452	90.4	2.4		453	90.6
Copper		500	7.1		500	100.0	6.6		503	100.6
Iron	200000	200000	208000	104.0	212000	106.0	207000	103.5	212000	106.0
Lead		1000	5.0		906	90.6	3.1		906	90.6
Lithium		500	19.9		573	114.6	18.9		577	115.4
Magnesium	500000	500000	534000	106.8	541000	108.2	528000	105.6	539000	107.8
Manganese		500	-1.6		469	93.8	-1.9		467	93.4
Molybdenum		500	4.3		478	95.6	3.6		480	96.0
Nickel		1000	1.2		914	91.4	1.2		917	91.7
Palladium		500	-23		493	98.6	-23		496	99.2
Potassium			130		145		130		118	
Selenium		1000	3.2		967	96.7	4.2		975	97.5
Silicon			-15		-15		-17		-15	
Silver		1000	2.4		1060	106.0	2.6		1060	106.0
Sodium			52.9		65.9		138		131	
Sulfur		500	32.9		512	102.4	37.2		523	104.6
Strontium			3.1		3.2		3.3		3.5	
Thallium		1000	3.4		915	91.5	1.1		926	92.6
Tin			-4.5		-3.8		-4.3		-4.7	
Titanium			2.6		3.0		2.7		2.9	
Tungsten		500	30.9		533	106.6	12.5		516	103.2
Vanadium		500	1.0		457	91.4	0.90		456	91.2
Zinc		1000	1.2		890	89.0	0.60		887	88.7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29320 Units: ug/l

Time:			12:16		12:22		15:17		15:23	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	-3.6		411	82.2	-4.2		410	82.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29320 Units: ug/l

Time: / Sample ID: / Metal	ICSA True	ICSAB True	22:42 ICSA3 Results	% Rec	22:48 ICSAB3 Results	% Rec	04:53 ICSA4 Results	% Rec	04:59 ICSAB4 Results	% Rec
Aluminum	500000	500000	534000	106.8	521000	104.2	544000	108.8	525000	105.0
Antimony		1000	-1.1		1070	107.0	0.20		1080	108.0
Arsenic		1000	2.4		995	99.5	4.8		988	98.8
Barium		500	-0.50		527	105.4	-0.60		523	104.6
Beryllium		500	0.10		496	99.2	0.10		494	98.8
Bismuth		500	2.5		519	103.8	1.0		507	101.4
Boron			-10		-11		-9.9		-11	
Cadmium		1000	3.2		1020	102.0	3.0		1010	101.0
Calcium	400000	400000	384000	96.0	400000	100.0	390000	97.5	405000	101.3
Chromium		500	-1.4		455	91.0	-1.3		457	91.4
Cobalt		500	2.7		451	90.2	2.2		448	89.6
Copper		500	7.4		509	101.8	8.3		510	102.0
Iron	200000	200000	209000	104.5	210000	105.0	212000	106.0	211000	105.5
Lead		1000	4.8		908	90.8	4.2		914	91.4
Lithium		500	19.0		578	115.6	20.3		570	114.0
Magnesium	500000	500000	531000	106.2	539000	107.8	536000	107.2	543000	108.6
Manganese		500	-2.1		467	93.4	-3.0		467	93.4
Molybdenum		500	4.0		479	95.8	4.1		477	95.4
Nickel		1000	1.4		923	92.3	0.70		932	93.2
Palladium		500	-24		502	100.4	-22		497	99.4
Potassium			134		111		146		121	
Selenium		1000	2.6		973	97.3	3.5		962	96.2
Silicon			-17		-17		-16		-18	
Silver		1000	1.8		1070	107.0	0.30		1060	106.0
Sodium			65.3		83.3		22.5		34.3	
Sulfur		500	37.8		523	104.6	33.1		528	105.6
Strontium			3.3		3.5		3.3		3.2	
Thallium		1000	-2.3		932	93.2	-3.8		962	96.2
Tin			-4.2		-4.0		-4.5		-5.3	
Titanium			2.7		3.0		2.6		3.1	
Tungsten		500	16.9		530	106.0	16.1		539	107.8
Vanadium		500	1.9		455	91.0	2.7		447	89.4
Zinc		1000	0.70		873	87.3	0.80		869	86.9

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090412M1.ICP Date Analyzed: 09/04/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29320 Units: ug/l

Time:			22:42		22:48		04:53		04:59	
Sample ID:	ICSA	ICSAB	ICSA3		ICSAB3		ICSA4		ICSAB4	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	-4.3		411	82.2	-4.3		405	81.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1	.74	-0.080	<50
Antimony	2.0	.12	.15	-0.010	<2.0
Arsenic	2.0	.08	.13	-0.040	<2.0
Barium	20	.04	.054	0.060	<20
Beryllium	0.20	.009	.02	0.010	<0.20
Bismuth	2.0	.16	.14		
Boron	10	.12	.14		
Cadmium	0.50	.02	.025	-0.010	<0.50
Calcium	500	2.3	2.3	34.4	<500
Chromium	1.0	.04	.11	-0.010	<1.0
Cobalt	5.0	.04	.031	0.010	<5.0
Copper	2.5	.06	.13	-0.040	<2.5
Iron	50	.42	.79	0.84	<50
Lead	2.0	.1	.11	-0.010	<2.0
Lithium	2.0	.14	.25		
Magnesium	500	2.8	3.1	4.1	<500
Manganese	1.5	.02	.048	0.040	<1.5
Molybdenum	2.0	.03	.074		
Nickel	4.0	.04	.11	0.060	<4.0
Palladium	5.0	.13	.17		
Potassium	1000	5.1	14	7.8	<1000
Selenium	2.0	.16	.24	-0.030	<2.0
Silicon	20	1	1.9		
Silver	0.50	.06	.063	-0.020	<0.50
Sodium	1000	1.5	13	2.0	<1000
Strontium	1.0	.02	.17		
Sulfur	5.0	.28	.65		
Thallium	1.0	.14	.22	-0.020	<1.0
Tin	5.0	.07	1.5		
Titanium	1.0	.06	.62		
Tungsten	5.0	.41	1.1		
Vanadium	5.0	.03	.1	0.010	<5.0
Zinc	2.0	.19	.19	0.40	<2.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.03	.1		

Associated samples MP66432: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	JB15113-3 Original	MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum	4460	12300	6320	124.0	75-125
Antimony	0.87	74.1	117	62.6N(a)	75-125
Arsenic	6.5	431	468	90.7	75-125
Barium	40.9	497	468	97.4	75-125
Beryllium	0.23	11.3	11.7	94.6	75-125
Bismuth					
Boron					
Cadmium	0.30	10.3	11.7	85.4	75-125
Calcium	59600	69900	1460	704.0(b)	75-125
Chromium	10	51.6	46.8	88.9	75-125
Cobalt	3.1	103	117	85.4	75-125
Copper	17.5	76.4	58.5	100.6	75-125
Iron	8450	14500	6090	99.4	75-125
Lead	122	193	117	60.7N(a)	75-125
Lithium					
Magnesium	3150	5050	1460	129.9N(a	75-125
Manganese	161	264	117	88.0	75-125
Molybdenum					
Nickel	14.1	124	117	93.9	75-125
Palladium					
Potassium	1460	3620	1460	147.6N(a	75-125
Selenium	1.3	410	468	87.3	75-125
Silicon					
Silver	0.0	11.5	11.7	98.3	75-125
Sodium	483	2030	1460	105.7	75-125
Strontium					
Sulfur					
Thallium	0.0	430	468	91.8	75-125
Tin					
Titanium					
Tungsten					
Vanadium	13.2	112	117	84.4	75-125
Zinc	70.2	165	117	81.0	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432 | Methods: SW846 6010C
Matrix Type: SOLID | Units: mg/kg

Prep Date: 09/04/12

Metal	JB15113-3 Original MS	Spikelot MPIRS1	% Rec	QC Limits
Zirconium				

Associated samples MP66432: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	JB15113-3 Original	MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum	4460	11400	6390	108.7	7.6	20
Antimony	0.87	75.3	118	62.9N(a)	1.6	20
Arsenic	6.5	429	473	89.3	0.5	20
Barium	40.9	516	473	100.4	3.8	20
Beryllium	0.23	11.1	11.8	91.9	1.8	20
Bismuth						
Boron						
Cadmium	0.30	10.5	11.8	86.2	1.9	20
Calcium	59600	64500	1480	331.4(b)	8.0	20
Chromium	10	52.1	47.3	89.0	1.0	20
Cobalt	3.1	103	118	84.5	0.0	20
Copper	17.5	70.6	59.1	89.8	7.9	20
Iron	8450	16200	6150	126.0N(a	11.1	20
Lead	122	240	118	99.8	21.7 (c)	20
Lithium						
Magnesium	3150	4890	1480	117.7	3.2	20
Manganese	161	402	118	203.8N(a	41.4 (c)	20
Molybdenum						
Nickel	14.1	122	118	91.2	1.6	20
Palladium						
Potassium	1460	3400	1480	131.2N(a	6.3	20
Selenium	1.3	407	473	85.8	0.7	20
Silicon						
Silver	0.0	11.4	11.8	96.4	0.9	20
Sodium	483	1970	1480	100.6	3.0	20
Strontium						
Sulfur						
Thallium	0.0	425	473	89.8	1.2	20
Tin						
Titanium						
Tungsten						
Vanadium	13.2	115	118	86.1	2.6	20
Zinc	70.2	218	118	125.0	27.7 (c)	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432 | Methods: SW846 6010C
Matrix Type: SOLID | Units: mg/kg

Prep Date: 09/04/12

Metal	JB15113-3 Original MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP66432: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum	5230	5400	96.9	80-120
Antimony	95.5	100	95.5	80-120
Arsenic	362	400	90.5	80-120
Barium	370	400	92.5	80-120
Beryllium	9.2	10	92.0	80-120
Bismuth				
Boron				
Cadmium	8.7	10	87.0	80-120
Calcium	1150	1250	92.0	80-120
Chromium	37.7	40	94.3	80-120
Cobalt	94.1	100	94.1	80-120
Copper	43.8	50	87.6	80-120
Iron	5020	5200	96.5	80-120
Lead	91.4	100	91.4	80-120
Lithium				
Magnesium	1120	1250	89.6	80-120
Manganese	93.8	100	93.8	80-120
Molybdenum				
Nickel	94.2	100	94.2	80-120
Palladium				
Potassium	1210	1250	96.8	80-120
Selenium	349	400	87.3	80-120
Silicon				
Silver	9.4	10	94.0	80-120
Sodium	1170	1250	93.6	80-120
Strontium				
Sulfur				
Thallium	388	400	97.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	87.0	100	87.0	80-120
Zinc	90.5	100	90.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/04/12

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Zirconium				

Associated samples MP66432: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/12

Metal	JB15113-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum	42100	41400	1.7	0-10
Antimony	8.20	0.00	100.0(a)	0-10
Arsenic	61.3	62.9	2.6	0-10
Barium	386	376	2.5	0-10
Beryllium	2.20	2.60	18.2 (a)	0-10
Bismuth				
Boron				
Cadmium	2.80	0.00	100.0(a)	0-10
Calcium	562000	577000	2.6	0-10
Chromium	94.0	98.8	5.1	0-10
Cobalt	28.9	31.9	10.4*(b)	0-10
Copper	165	163	1.7	0-10
Iron	79800	81000	1.6	0-10
Lead	1150	1170	1.4	0-10
Lithium				
Magnesium	29700	29500	0.5	0-10
Manganese	1520	1590	4.3	0-10
Molybdenum				
Nickel	133	143	7.1	0-10
Palladium				
Potassium	13800	13000	6.1	0-10
Selenium	12.3	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	4550	4370	4.0	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	125	127	1.5	0-10
Zinc	662	747	12.9*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66432
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/12

Metal	JB15113-3 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP66432: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66433
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/04/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.01	.013	-0.0050	<0.033

Associated samples MP66433: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66433
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/04/12

Metal	JB15076-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.0	0.37	0.346	106.8	75-125

Associated samples MP66433: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66433
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/04/12

Metal	JB15076-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.34	0.35	97.3	8.5	

Associated samples MP66433: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66433
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/04/12

Metal	LCS Result	Spikelot HGLCS76540	% Rec	QC Limits
Mercury	3.8	3.73	101.9	72-128

Associated samples MP66433: JB15113-1, JB15113-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.3

9

New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB15113
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: JB15113-1 **Analyzed:** 31-AUG-12 by MH **Method:** SM18 2540G
ClientID: 043-PE 6A-0.5'-1'

Wet Weight (Total)	34.43	g
Tare Weight	27.56	g
Dry Weight (Total)	33.83	g
Solids, Percent	91.3	%

Sample: JB15113-3 **Analyzed:** 31-AUG-12 by MH **Method:** SM18 2540G
ClientID: 045-PE 7A-0.5'-1'

Wet Weight (Total)	32.94	g
Tare Weight	26.57	g
Dry Weight (Total)	32.24	g
Solids, Percent	89	%

New Jersey
ACCUTEST LABORATORIES

06/03/13

Technical Report for

Langan Engineering & Environmental

508 West 24th Street, Manhattan, NY

100242701

Accutest Job Number: JB15113R

Sampling Date: 08/29/12

Report to:

Langan Engineering & Environmental

ldeckard@langan.com

ATTN: Lindsay Deckard

Total number of pages in report: **333**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Langan Engineering & Environmental

Job No: JB15113R

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB15113-4R	08/29/12	10:00	CBM	08/30/12	SO	Soil	046-PE 7B-1.5'-2'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Langan Engineering & Environmental	**Job No**	JB15113R
Site:	508 West 24th Street, Manhattan, NY	**Report Date**	9/14/2012 9:32:38 AM

On 08/30/2012, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15113R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VY5408

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15629-5MS, JB15629-5MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dichloropropane, Chloroethane, Chloromethane, Methyl Acetate, Methylene chloride, Vinyl chloride are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Methyl Acetate are outside control limits. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP59504

- All samples were extracted within the recommended method holding time.
- Sample(s) JB15130-8MS, JB15130-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: SO **Batch ID:** OP59561

- All samples were extracted within the recommended method holding time.
- Sample(s) JB15273-5MS, JB15273-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Sample(s) JB15113-4R have surrogates outside control limits. Outside control limits due to matrix interference.
- JB15113-4R for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JB15113-4R for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JB15113-4R for Decachlorobiphenyl: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8082A

Matrix: SO	**Batch ID:** OP59562

- All samples were extracted within the recommended method holding time.
- Sample(s) JB14977-3MS, JB14977-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Aroclor 1260 are outside control limits. Outside control limits due to presence of other Aroclor pattern.

Metals By Method SW846 6010C

Matrix: SO	**Batch ID:** MP66529

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB14888-17MS, JB14888-17MSD, JB14888-17SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Cobalt, Manganese, Vanadium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Cobalt, Manganese, Vanadium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium, Magnesium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Lead, Selenium, Thallium, Antimony, Beryllium, Cadmium, Potassium, Arsenic, Chromium, Manganese, Zinc are outside control limits for sample MP66529-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP66529-SD1 for Arsenic: Serial dilution indicates possible matrix interference.
- MP66529-SD1 for Chromium: Serial dilution indicates possible matrix interference.
- MP66529-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP66529-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix: SO	**Batch ID:** MP66574

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB14888-17MS, JB14888-17MSD were used as the QC samples for metals.

Wet Chemistry By Method SM18 2540G

Matrix: SO	**Batch ID:** GN71663

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB15113R
Account: Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Collected: 08/29/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15113-4R	**046-PE 7B-1.5'-2'**					
Acenaphthene		30.1 J	32	9.3	ug/kg	SW846 8270D
Acenaphthylene		23.9 J	32	10	ug/kg	SW846 8270D
Anthracene		108	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene		332	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene		313	32	9.8	ug/kg	SW846 8270D
Benzo(b)fluoranthene		303	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		238	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		264	32	12	ug/kg	SW846 8270D
Carbazole		36.8 J	64	15	ug/kg	SW846 8270D
Chrysene		357	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		91.7	32	11	ug/kg	SW846 8270D
Dibenzofuran		15.0 J	64	9.5	ug/kg	SW846 8270D
Dimethyl phthalate		34.8 J	64	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		67.9	64	28	ug/kg	SW846 8270D
Fluoranthene		691	32	14	ug/kg	SW846 8270D
Fluorene		23.4 J	32	11	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		205	32	11	ug/kg	SW846 8270D
Phenanthrene		428	32	15	ug/kg	SW846 8270D
Pyrene		620	32	12	ug/kg	SW846 8270D
4,4'-DDD [a]		3.1	0.74	0.38	ug/kg	SW846 8081B
4,4'-DDE [a]		1.9	0.74	0.43	ug/kg	SW846 8081B
4,4'-DDT		9.6	0.74	0.54	ug/kg	SW846 8081B
Aluminum		6090	58		mg/kg	SW846 6010C
Arsenic		6.2	2.3		mg/kg	SW846 6010C
Barium		53.5	23		mg/kg	SW846 6010C
Beryllium		0.28	0.23		mg/kg	SW846 6010C
Calcium		68500	580		mg/kg	SW846 6010C
Chromium		12.8	1.2		mg/kg	SW846 6010C
Copper		17.0	2.9		mg/kg	SW846 6010C
Iron		8000	58		mg/kg	SW846 6010C
Lead		129	2.3		mg/kg	SW846 6010C
Magnesium		4560	580		mg/kg	SW846 6010C
Manganese		181	1.8		mg/kg	SW846 6010C
Mercury		0.20	0.037		mg/kg	SW846 7471B
Nickel		14.0	4.7		mg/kg	SW846 6010C
Potassium		1600	1200		mg/kg	SW846 6010C
Vanadium		15.3	5.8		mg/kg	SW846 6010C
Zinc		86.2	2.3		mg/kg	SW846 6010C

(a) More than 40 % RPD for detected concentrations between the two GC columns.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@734658 15:00 03-Jun-2013

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y125922.D	1	09/08/12	RS	n/a	n/a	VY5408
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.9	ug/kg	
71-43-2	Benzene	ND	1.1	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	0.12	ug/kg	
75-25-2	Bromoform	ND	5.7	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.26	ug/kg	
67-66-3	Chloroform	ND	5.7	0.095	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.7	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.7	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.7	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.7	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.7	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.7	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.7	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	140	68	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.30	ug/kg	
76-13-1	Freon 113	ND	5.7	0.49	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.7	0.71	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	0.085	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.7	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.86	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.5	ug/kg	
100-42-5	Styrene	ND	5.7	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.7	0.20	ug/kg	
108-88-3	Toluene	ND	1.1	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.7	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	0.17	ug/kg	
	m,p-Xylene	ND	1.1	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-122%
2037-26-5	Toluene-D8	108%		81-127%
460-00-4	4-Bromofluorobenzene	97%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@734658 15:00 03-Jun-2013

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15929.D	1	09/07/12	ALS	09/01/12	OP59504	E2P721
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	52	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	54	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	37	ug/kg	
	3&4-Methylphenol	ND	64	41	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	55	ug/kg	
108-95-2	Phenol	ND	64	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	30.1	32	9.3	ug/kg	J
208-96-8	Acenaphthylene	23.9	32	10	ug/kg	J
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	108	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	332	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	313	32	9.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	303	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	238	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	264	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	64	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	9.9	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	36.8	64	15	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	357	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	91.7	32	11	ug/kg	
132-64-9	Dibenzofuran	15.0	64	9.5	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	64	7.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	64	16	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	34.8	64	11	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	67.9	64	28	ug/kg	
206-44-0	Fluoranthene	691	32	14	ug/kg	
86-73-7	Fluorene	23.4	32	11	ug/kg	J
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	205	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	64	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	32	8.7	ug/kg	
98-95-3	Nitrobenzene	ND	64	9.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	428	32	15	ug/kg	
129-00-0	Pyrene	620	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		21-116%
4165-62-2	Phenol-d5	65%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-136%
4165-60-0	Nitrobenzene-d5	57%		21-122%
321-60-8	2-Fluorobiphenyl	64%		30-117%
1718-51-0	Terphenyl-d14	104%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.32	350	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@734658 15:00 03-Jun-2013

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8081B SW846 3546	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G22685.D	1	09/13/12	DS	09/05/12	OP59561	G4G581
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.37	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.55	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.52	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.43	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.48	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.38	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.57	ug/kg	
72-54-8	4,4'-DDD [a]	3.1	0.74	0.38	ug/kg	
72-55-9	4,4'-DDE [a]	1.9	0.74	0.43	ug/kg	
50-29-3	4,4'-DDT	9.6	0.74	0.54	ug/kg	
72-20-8	Endrin	ND	0.74	0.38	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.70	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.36	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.45	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.36	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.52	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.48	ug/kg	
8001-35-2	Toxaphene	ND	18	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		23-137%
877-09-8	Tetrachloro-m-xylene	70%		23-137%
2051-24-3	Decachlorobiphenyl	168% [b]		22-160%
2051-24-3	Decachlorobiphenyl	152%		22-160%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@734658 15:00 03-Jun-2013

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	88.9
Project:	508 West 24th Street, Manhattan, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112527.D	1	09/12/12	OPM	09/05/12	OP59562	GEF4572
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		22-141%
877-09-8	Tetrachloro-m-xylene	128%		22-141%
2051-24-3	Decachlorobiphenyl	70%		18-163%
2051-24-3	Decachlorobiphenyl	119%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	046-PE 7B-1.5'-2'		
Lab Sample ID:	JB15113-4R	**Date Sampled:**	08/29/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
		Percent Solids:	88.9
Project:	508 West 24th Street, Manhattan, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6090	58	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Arsenic	6.2	2.3	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Barium	53.5	23	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.28	0.23	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Calcium	68500	580	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Chromium	12.8	1.2	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Copper	17.0	2.9	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Iron	8000	58	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Lead	129	2.3	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Magnesium	4560	580	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Manganese	181	1.8	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.20	0.037	mg/kg	1	09/10/12	09/10/12	VK	SW846 7471B [2]	SW846 7471B [4]
Nickel	14.0	4.7	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Potassium	1600	1200	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Vanadium	15.3	5.8	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]
Zinc	86.2	2.3	mg/kg	1	09/07/12	09/08/12	CS	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA29358
(2) Instrument QC Batch: MA29361
(3) Prep QC Batch: MP66529
(4) Prep QC Batch: MP66574

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

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CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB15113

Client / Reporting Information

Company Name: Langan Eng + Env Svcs
Street Address: 619 River Drive
City / State / Zip: Elmwood Park NJ 07407
Project Contact: Chris McMahon
E-mail: cmcmahon@langan.com
Phone #: 201-218-2339
Fax #:
Sampler(s) Name(s): Christie B Madden
Phone #: 551-497-3336

Project Information

Project Name: 508 W 24th St
Street: 508 W 24th St.
City / State: Manhattan NY
Project #: 100242701
Client Purchase Order #:
Project Manager: Tammy McCloskey
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	5035	VOCs	SVOCs	Pesticides	PCBs	METALS						LAB USE ONLY
-1	043 SS1A 0.5'-0.83'	—	8/29/12	0810	CBM	SO	4					1			3	4	X	X	X	X	X						
-2	044 SS1B 1.5'-2'	—	8/29/12	0820	CBM	SO	4					1			3	4	X	X	X	X	X						HB31
-3	045 SS2A 0.5'-1'	—	8/29/12	945	CBM	SO	4					1			3	4	X	X	X	X	X						14A5
-4	046 SS2B 1.5'-2'	—	8/29/12	1000	CBM	SO	4					1			3	4	X	X	X	X	X						4012
-5	047 FB-1	1 —	8/29/12	1025	CBM	FB	7	2		1		4				7	X	X	X	X	X						
			CB 8/29/12																								48M
																											AM013
																											2173

Christie B Madden

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☒ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULL.T1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Electronic copies only please!

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Christie B Madden	8-29-12	1 Basement Room 1624	2 [signature]	8/30/12	2 [signature] 8-30-12 1020
3 [signature] 8-30-12	1525	3 [signature]	4		4
5		5			

Custody Seal # 70 ☐ Intact ☐ Not intact

Preserved where applicable ☒ On Ice ☒ Cooler Temp. 4°C

14

5.1 5

JB15113R: Chain of Custody
Page 1 of 6

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15113 **Client:** **Project:**

Date / Time Received: 8/30/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4/4); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Bar Therm	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB15113R: Chain of Custody
Page 2 of 6

Job Change Order: JB15113_8/31/2012

Requested Date:	8/31/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	TM	**TAT (Days):**	3

Sample #:
JB15113-5

Change: cancel SVOC and metals analysis

047 FB-1

Above Changes Per: Amanda Forsburg **Date:** 8/31/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Job Change Order: JB15113_8/31/2012

Requested Date:	8/31/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	TM	**TAT (Days):**	3

Sample #: JB15113-1 — **Change:** change sample ID to 043-PE 6A-0.5'-1'

043 SS1A 0.5'-0.83'

Sample #: JB15113-2 — **Change:** change sample ID to 044-PE-6B 1.5'-2', cancel VO & Metals analysis, change SVOC, PEST & PCB to extract & hold

044 SS1B 1.5'-2'

Sample #: JB15113-3 — **Change:** change sample ID to 045-PE-7A 0.5'-1'

045 SS12 0.5'-1'

Sample #: JB15113-4 — **Change:** change sample ID to 046-PE-7B 1.5'-2', cancel VO & Metals analysis, change SVOC, PEST & PCB to extract & Hold

046 SS2B 1.5'-2'

Above Changes Per: Amanda Forsburg / Chris McMahon **Date:** 8/31/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

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PAGE 1 OF 1

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB15113 RENSED

Client / Reporting Information

Company Name: Langan Eng + Env Svcs
Street Address: 619 River Drive
City State Zip: Elmwood Park NJ 07407
Project Contact: Chris McMahon E-mail: cmcmahon@langan.com
Phone #: 201-218-2339 Fax #:
Sampler(s) Name(s): Christine B Madsen Phone #: 551-497-3336

Project Information

Project Name: 508 W 24th St
Street: 508 W 24th St.
City State: Manhattan NY
Project #: 100242701
Client Purchase Order #:
Project Manager: Tammy McCloskey
Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WIP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	5035	VOCs	SVOCs	Pesticides	PCBs	METALS						LAB USE ONLY
PE-6A -1	043 ~~SS1A~~ 0.5'-~~0.63'~~	—	8/29/12	0810	CBM	SO	4					1			3	4	X	X	X	X	X						
PE-6B -2	044 ~~SS1B~~ 1.5'-2'	—	8/29/12	0820	CBM	SO	4					1			3	4	X	X	X	X	X						1831
PE-7A -3	045 ~~SS2A~~ 0.5'-1'	—	8/29/12	945	CBM	SO	4					1			3	4	X	X	X	X	X						1445
PE-7B -4	046 ~~SS2B~~ 1.5'-2'	—	8/29/12	1000	CBM	SO	4					1			3	4	X	X	X	X	X						1012
-5	047 FB-1	1 —	8/29/12	1025	CBM	FB	7	2		1		4				7	X	~~X~~	~~X~~	~~X~~	~~X~~						
			CB ~~8/29/12~~																								48m
																											AMBIS
																											2173

Christine B Madsen

Matrix of Concern

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day RUSH
- ☐ 6 Day RUSH
- ☒ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labilink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Electronic copies only please!
- please run FB-1 for VOCs only
- please HOLD samples PE-6B + PE-7B

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Christine B Madsen	8-29-12	1 Basement Room 1624	2 [signature]	8/30/12	2 [signature] 8-30-12 1020
3 [signature] 8-30-12	1500	3 [signature]	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 70 ☐ Intact ☐ Not intact	Preserved where applicable ☒	On Ice ☒ Cooler Temp. 4°C

1A

5.1 5

Job Change Order: JB15113_9/6/2012

Requested Date:	9/6/2012	**Received Date:**	8/30/2012
Account Name:	Langan Engineering &	**Due Date:**	9/5/2012
Project	508 West 24th Street, Manhattan, NY	**Deliverable:**	REDT2
CSR:	MV	**TAT (Days):**	3

Sample #:
JB15113-4

Change: Off hold - Log for V8260TCL11+, MTAL, AB8270TCL11+AO, P8081PESTTCLAO, P8082PCB11AO

046-PE 7B-1.5'-2'

Above Changes Per: Christine Madsen **Date:** 9/6/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB15113R

508 West 24th Street, Manhattan, NY
Project No: 100242701

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB15113-4R 046-PE 7B-1.5'-2'	Collected: 29-AUG-12 10:00 By: CBM		Received: 30-AUG-12 By: TH			
JB15113-4R	SM18 2540G	07-SEP-12 13:15	KP			%SOL
JB15113-4R	SW846 8270D	07-SEP-12 18:55	ALS	01-SEP-12	KS	AB8270TCL11 + AO
JB15113-4R	SW846 8260B	08-SEP-12 03:00	RS			V8260TCL11 +
JB15113-4R	SW846 6010C	08-SEP-12 21:02	CS	07-SEP-12	DP	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB15113-4R	SW846 7471B	10-SEP-12 13:14	VK	10-SEP-12	VK	HG
JB15113-4R	SW846 8082A	12-SEP-12 12:14	OPM	05-SEP-12	JR	P8082PCB11AO
JB15113-4R	SW846 8081B	13-SEP-12 13:06	DS	05-SEP-12	JR	P8081PESTTCLAO

Accutest Internal Chain of Custody

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-4.1	Secured Storage	Jamie Farrell	08/31/12 11:06	Retrieve from Storage
JB15113-4.1	Jamie Farrell	Allan Chung-yew	08/31/12 17:05	Custody Transfer
JB15113-4.1	Allan Chung-yew	Minhaj Hashmi	08/31/12 19:10	Custody Transfer
JB15113-4.1	Minhaj Hashmi	Secured Storage	08/31/12 21:17	Return to Storage
JB15113-4.1	Secured Storage	Khusbu Shah	09/01/12 09:06	Retrieve from Storage
JB15113-4.1	Khusbu Shah	Secured Storage	09/01/12 17:37	Return to Storage
JB15113-4.1	Secured Storage	Joseph Ravino	09/05/12 08:13	Retrieve from Storage
JB15113-4.1	Joseph Ravino	Secured Storage	09/05/12 15:02	Return to Storage
JB15113-4.1	Secured Storage	Dave Hunkele	09/07/12 10:36	Retrieve from Storage
JB15113-4.1	Dave Hunkele	Secured Staging Area	09/07/12 10:37	Return to Storage
JB15113-4.1	Secured Staging Area	Krimesh Patel	09/07/12 12:13	Retrieve from Storage
JB15113-4.1	Krimesh Patel	Secured Storage	09/07/12 13:39	Return to Storage
JB15113-4.1	Secured Storage	Brian Racin	09/07/12 14:31	Retrieve from Storage
JB15113-4.1	Brian Racin	Secured Staging Area	09/07/12 14:32	Return to Storage
JB15113-4.1	Secured Staging Area	Minhaj Hashmi	09/07/12 15:07	Retrieve from Storage
JB15113-4.1	Minhaj Hashmi	Michael Bunza	09/07/12 18:40	Custody Transfer
JB15113-4.1	Michael Bunza	Secured Storage	09/07/12 18:53	Return to Storage
JB15113-4.1	Secured Storage	Darshananben Patel	09/10/12 06:19	Retrieve from Storage
JB15113-4.1	Darshananben Patel	Secured Storage	09/10/12 13:48	Return to Storage
JB15113-4.1	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-4.1.1	Jamie Farrell	Organics Prep	08/31/12 11:17	Extract from JB15113-4.1
JB15113-4.1.1	Organics Prep	Max Ponce	08/31/12 23:54	Extract from JB15113-4.1
JB15113-4.1.1	Max Ponce	Extract Storage	08/31/12 23:55	Return to Storage
JB15113-4.1.1	Extract Storage	Kristi Schollenberger	09/01/12 14:22	Retrieve from Storage
JB15113-4.1.1	Kristi Schollenberger	GCMS2M	09/01/12 14:22	Load on Instrument
JB15113-4.1.1	GCMS2M	Olga Azarihn	09/04/12 09:59	Unload from Instrument
JB15113-4.1.1	Olga Azarihn	Extract Freezer	09/04/12 09:59	Return to Storage
JB15113-4.1.1	Extract Freezer		10/11/12 09:00	Disposed
JB15113-4.1.2	Jamie Farrell	Organics Prep	08/31/12 11:23	Extract from JB15113-4.1
JB15113-4.1.2	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-4.1
JB15113-4.1.2	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-4.1.2	Extract Storage		10/11/12 09:00	Disposed
JB15113-4.1.3	Jamie Farrell	Organics Prep	08/31/12 13:33	Extract from JB15113-4.1
JB15113-4.1.3	Organics Prep	Allan Chung-yew	08/31/12 23:32	Extract from JB15113-4.1
JB15113-4.1.3	Allan Chung-yew	Extract Storage	08/31/12 23:32	Return to Storage
JB15113-4.1.3	Extract Storage	Gwendolyn Dymowski	09/04/12 15:54	Retrieve from Storage
JB15113-4.1.3	Gwendolyn Dymowski	GCEF	09/04/12 15:54	Load on Instrument
JB15113-4.1.3	GCEF	Gwendolyn Dymowski	09/05/12 07:58	Unload from Instrument
JB15113-4.1.3	Gwendolyn Dymowski	Extract Freezer	09/05/12 07:58	Return to Storage
JB15113-4.1.3	Extract Freezer		10/11/12 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-4.1.4	Khusbu Shah	Organics Prep	09/01/12 09:22	Extract from JB15113-4.1
JB15113-4.1.4	Organics Prep	Khusbu Shah	09/01/12 17:39	Extract from JB15113-4.1
JB15113-4.1.4	Khusbu Shah	Extract Storage	09/01/12 17:39	Return to Storage
JB15113-4.1.4	Extract Storage	Andrew Lee Smith	09/04/12 15:12	Retrieve from Storage
JB15113-4.1.4	Andrew Lee Smith	GCMS2P	09/04/12 15:13	Load on Instrument
JB15113-4.1.4	GCMS2P	Andrew Lee Smith	09/07/12 10:20	Unload from Instrument
JB15113-4.1.4	Andrew Lee Smith	Extract Freezer	09/07/12 10:20	Return to Storage
JB15113-4.1.4	Extract Freezer		10/12/12 09:00	Disposed
JB15113-4.1.5	Joseph Ravino	Organics Prep	09/05/12 08:17	Extract from JB15113-4.1
JB15113-4.1.5	Organics Prep	Joseph Ravino	09/05/12 11:40	Extract from JB15113-4.1
JB15113-4.1.5	Joseph Ravino	Extract Storage	09/05/12 11:40	Return to Storage
JB15113-4.1.5	Extract Storage	Douglas Siano	09/13/12 12:36	Retrieve from Storage
JB15113-4.1.5	Douglas Siano	GC4G	09/13/12 12:36	Load on Instrument
JB15113-4.1.5	GC4G	Douglas Siano	10/22/12 17:31	Unload from Instrument
JB15113-4.1.5	Douglas Siano	Extract Freezer	10/22/12 17:33	Return to Storage
JB15113-4.1.5	Extract Freezer		10/23/12 09:00	Disposed
JB15113-4.1.6	Joseph Ravino	Organics Prep	09/05/12 08:20	Extract from JB15113-4.1
JB15113-4.1.6	Organics Prep	Joseph Ravino	09/05/12 11:39	Extract from JB15113-4.1
JB15113-4.1.6	Joseph Ravino	Extract Storage	09/05/12 11:39	Return to Storage
JB15113-4.1.6	Extract Storage	Gwendolyn Dymowski	09/12/12 11:15	Retrieve from Storage
JB15113-4.1.6	Gwendolyn Dymowski	GCEF	09/12/12 11:15	Load on Instrument
JB15113-4.1.6	GCEF	Gwendolyn Dymowski	09/13/12 07:48	Unload from Instrument
JB15113-4.1.6	Gwendolyn Dymowski	Extract Freezer	09/13/12 07:48	Return to Storage
JB15113-4.1.6	Extract Freezer		10/16/12 09:00	Disposed
JB15113-4.1.7	Michael Bunza	Metals Digestion	09/07/12 18:46	Digestate from JB15113-4.1
JB15113-4.1.7	Metals Digestion	Michael Bunza	09/07/12 18:46	Digestate from JB15113-4.1
JB15113-4.1.7	Michael Bunza	Metals Digestate Storage	09/07/12 18:46	Return to Storage
JB15113-4.1.7	Metals Digestate Storage		11/14/12 09:00	Disposed
JB15113-4.3	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-4.3	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.3	Dave Hunkele		10/04/12 04:56	Disposed
JB15113-4.4	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage
JB15113-4.4	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.4	Secured Storage	Robert Szot	08/31/12 18:09	Retrieve from Storage
JB15113-4.4	Robert Szot	GCMSY	08/31/12 18:09	Load on Instrument
JB15113-4.4	GCMSY	Robert Szot	09/04/12 09:17	Unload from Instrument
JB15113-4.4	Robert Szot		09/04/12 09:17	Depleted
JB15113-4.5	Secured Storage	Jayna Patel	08/31/12 07:46	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15113-4.5	Jayna Patel	Secured Storage	08/31/12 08:06	Return to Storage
JB15113-4.5	Secured Storage	Robert Szot	09/07/12 16:28	Retrieve from Storage
JB15113-4.5	Robert Szot	GCMSY	09/07/12 16:28	Load on Instrument
JB15113-4.5	GCMSY	Robert Szot	09/10/12 11:53	Unload from Instrument
JB15113-4.5	Robert Szot		09/10/12 11:54	Depleted

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5408-MB	Y125914.D	1	09/07/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5408-MB	Y125914.D	1	09/07/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-122%
2037-26-5	Toluene-D8	108%	81-127%
460-00-4	4-Bromofluorobenzene	98%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5408-BS	Y125915.D	1	09/07/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	63.7	127	31-168
71-43-2	Benzene	50	55.4	111	76-117
74-97-5	Bromochloromethane	50	59.2	118	79-128
75-27-4	Bromodichloromethane	50	53.8	108	78-128
75-25-2	Bromoform	50	58.4	117	71-138
74-83-9	Bromomethane	50	67.7	135	55-145
78-93-3	2-Butanone (MEK)	50	60.6	121	55-149
75-15-0	Carbon disulfide	50	65.8	132	65-132
56-23-5	Carbon tetrachloride	50	51.3	103	70-140
108-90-7	Chlorobenzene	50	51.3	103	78-120
75-00-3	Chloroethane	50	79.9	160* [a]	62-139
67-66-3	Chloroform	50	56.7	113	78-124
74-87-3	Chloromethane	50	78.3	157* [a]	50-132
110-82-7	Cyclohexane	50	58.7	117	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	54.7	109	61-132
124-48-1	Dibromochloromethane	50	53.2	106	75-128
106-93-4	1,2-Dibromoethane	50	54.0	108	77-122
95-50-1	1,2-Dichlorobenzene	50	50.5	101	76-119
541-73-1	1,3-Dichlorobenzene	50	48.5	97	75-120
106-46-7	1,4-Dichlorobenzene	50	47.3	95	72-113
75-71-8	Dichlorodifluoromethane	50	43.5	87	41-138
75-34-3	1,1-Dichloroethane	50	63.4	127	75-127
107-06-2	1,2-Dichloroethane	50	51.0	102	68-134
75-35-4	1,1-Dichloroethene	50	59.0	118	73-127
156-59-2	cis-1,2-Dichloroethene	50	59.7	119	77-121
156-60-5	trans-1,2-Dichloroethene	50	57.7	115	76-123
78-87-5	1,2-Dichloropropane	50	61.6	123* [a]	75-121
10061-01-5	cis-1,3-Dichloropropene	50	52.5	105	76-122
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	75-126
123-91-1	1,4-Dioxane	1250	1380	110	59-135
100-41-4	Ethylbenzene	50	48.4	97	74-119
76-13-1	Freon 113	50	59.3	119	62-141
591-78-6	2-Hexanone	50	54.9	110	60-136
98-82-8	Isopropylbenzene	50	45.0	90	71-119
79-20-9	Methyl Acetate	50	72.9	146* [a]	50-134
108-87-2	Methylcyclohexane	50	52.1	104	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5408-BS	Y125915.D	1	09/07/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	116	116	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	62.2	124	68-134
75-09-2	Methylene chloride	50	61.7	123* [a]	72-120
100-42-5	Styrene	50	49.6	99	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	49.4	99	67-117
127-18-4	Tetrachloroethene	50	48.7	97	63-146
108-88-3	Toluene	50	50.4	101	77-121
87-61-6	1,2,3-Trichlorobenzene	50	47.6	95	64-131
120-82-1	1,2,4-Trichlorobenzene	50	46.9	94	65-132
71-55-6	1,1,1-Trichloroethane	50	53.3	107	74-133
79-00-5	1,1,2-Trichloroethane	50	56.2	112	76-124
79-01-6	Trichloroethene	50	53.2	106	79-124
75-69-4	Trichlorofluoromethane	50	61.5	123	61-147
75-01-4	Vinyl chloride	50	76.0	152* [a]	57-138
	m,p-Xylene	100	95.5	96	75-119
95-47-6	o-Xylene	50	49.4	99	77-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	70-130%
17060-07-0	1,2-Dichloroethane-D4	95%	70-122%
2037-26-5	Toluene-D8	110%	81-127%
460-00-4	4-Bromofluorobenzene	90%	66-132%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15629-5MS	Y125916.D	1	09/08/12	RS	n/a	n/a	VY5408
JB15629-5MSD	Y125917.D	1	09/08/12	RS	n/a	n/a	VY5408
JB15629-5	Y125919.D	1	09/08/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	JB15629-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		52.5	104	198	98.5	188	5	10-198/35
71-43-2	Benzene	ND		52.5	33.7	64	30.5	58	10	44-130/21
74-97-5	Bromochloromethane	ND		52.5	37.5	71	33.8	64	10	52-136/19
75-27-4	Bromodichloromethane	ND		52.5	32.8	63	30.2	58	8	43-141/20
75-25-2	Bromoform	ND		52.5	37.0	71	35.3	67	5	34-149/22
74-83-9	Bromomethane	ND		52.5	56.9	108	52.9	101	7	10-159/28
78-93-3	2-Butanone (MEK)	ND		52.5	56.0	107	54.0	103	4	27-174/31
75-15-0	Carbon disulfide	ND		52.5	37.6	72	32.9	63	13	36-140/25
56-23-5	Carbon tetrachloride	ND		52.5	31.8	61	28.2	54	12	33-153/22
108-90-7	Chlorobenzene	ND		52.5	28.1	54	25.7	49	9	35-137/23
75-00-3	Chloroethane	ND		52.5	68.6	131	64.8	124	6	29-146/27
67-66-3	Chloroform	ND		52.5	36.1	69	32.5	62	10	49-133/21
74-87-3	Chloromethane	ND		52.5	71.8	137	69.5	132	3	36-140/23
110-82-7	Cyclohexane	ND		52.5	36.3	69	32.4	62	11	24-149/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		52.5	36.2	69	34.6	66	5	24-149/26
124-48-1	Dibromochloromethane	ND		52.5	34.3	65	31.7	60	8	40-142/21
106-93-4	1,2-Dibromoethane	ND		52.5	35.2	67	32.8	63	7	41-139/21
95-50-1	1,2-Dichlorobenzene	ND		52.5	24.4	47	23.5	45	4	23-141/27
541-73-1	1,3-Dichlorobenzene	ND		52.5	23.0	44	21.9	42	5	22-141/27
106-46-7	1,4-Dichlorobenzene	ND		52.5	22.5	43	21.5	41	5	21-136/26
75-71-8	Dichlorodifluoromethane	ND		52.5	56.6	108	52.7	100	7	24-162/25
75-34-3	1,1-Dichloroethane	ND		52.5	39.5	75	35.1	67	12	48-132/20
107-06-2	1,2-Dichloroethane	ND		52.5	32.8	63	30.5	58	7	43-139/19
75-35-4	1,1-Dichloroethene	ND		52.5	36.8	70	32.0	61	14	42-139/23
156-59-2	cis-1,2-Dichloroethene	ND		52.5	34.9	67	31.3	60	11	46-132/21
156-60-5	trans-1,2-Dichloroethene	ND		52.5	33.9	65	29.9	57	13	44-135/22
78-87-5	1,2-Dichloropropane	ND		52.5	38.2	73	35.2	67	8	45-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		52.5	32.8	63	30.5	58	7	43-133/23
10061-02-6	trans-1,3-Dichloropropene	ND		52.5	30.5	58	29.5	56	3	41-138/23
123-91-1	1,4-Dioxane	ND		1310	1530	117	1550	118	1	38-159/35
100-41-4	Ethylbenzene	ND		52.5	27.4	52	25.0	48	9	29-137/25
76-13-1	Freon 113	ND		52.5	51.2	98	47.0	90	9	28-154/28
591-78-6	2-Hexanone	ND		52.5	42.2	80	40.8	78	3	25-161/28
98-82-8	Isopropylbenzene	ND		52.5	25.3	48	24.0	46	5	27-138/26
79-20-9	Methyl Acetate	ND		52.5	127	242* [a]	139	265* [b]	9	26-173/30
108-87-2	Methylcyclohexane	ND		52.5	40.9	78	38.0	72	7	16-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15629-5MS	Y125916.D	1	09/08/12	RS	n/a	n/a	VY5408
JB15629-5MSD	Y125917.D	1	09/08/12	RS	n/a	n/a	VY5408
JB15629-5	Y125919.D	1	09/08/12	RS	n/a	n/a	VY5408

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB15113-4R

CAS No.	Compound	JB15629-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		52.5	39.7	76	36.6	70	8	51-128/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		52.5	47.7	91	45.5	87	5	39-143/22
75-09-2	Methylene chloride	ND		52.5	38.7	74	34.5	66	11	50-125/20
100-42-5	Styrene	ND		52.5	26.6	51	24.9	47	7	27-146/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		52.5	29.6	56	29.1	55	2	36-130/27
127-18-4	Tetrachloroethene	ND		52.5	46.6	89	42.4	81	9	20-173/26
108-88-3	Toluene	ND		52.5	29.2	56	26.7	51	9	40-135/22
87-61-6	1,2,3-Trichlorobenzene	ND		52.5	15.7	30	15.4	29	2	10-155/34
120-82-1	1,2,4-Trichlorobenzene	ND		52.5	15.0	29	14.6	28	3	10-152/34
71-55-6	1,1,1-Trichloroethane	ND		52.5	33.7	64	29.1	55	15	41-145/22
79-00-5	1,1,2-Trichloroethane	ND		52.5	36.7	70	35.5	68	3	45-137/21
79-01-6	Trichloroethene	ND		52.5	33.8	64	30.4	58	11	35-149/23
75-69-4	Trichlorofluoromethane	ND		52.5	56.9	108	53.2	101	7	26-164/25
75-01-4	Vinyl chloride	ND		52.5	73.6	140	70.8	135	4	36-150/23
	m,p-Xylene	ND		105	53.2	51	49.2	47	8	28-139/26
95-47-6	o-Xylene	ND		52.5	27.3	52	25.1	48	8	31-139/24

CAS No.	Surrogate Recoveries	MS	MSD	JB15629-5	Limits
1868-53-7	Dibromofluoromethane	111%	108%	109%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	97%	100%	70-122%
2037-26-5	Toluene-D8	110%	111%	108%	81-127%
460-00-4	4-Bromofluorobenzene	91%	93%	97%	66-132%

(a) Outside control limits due to matrix interference.
(b) Outside control limits due to acid preservation.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: VY5252-BFB
Lab File ID: Y122447.D
Instrument ID: GCMSY
Injection Date: 04/26/12
Injection Time: 17:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7388	18.1		Pass
75	30.0 - 60.0% of mass 95	19178	47.0		Pass
95	Base peak, 100% relative abundance	40792	100.0		Pass
96	5.0 - 9.0% of mass 95	2790	6.84		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	37789	92.6		Pass
175	5.0 - 9.0% of mass 174	2997	7.35	(7.93) [a]	Pass
176	95.0 - 101.0% of mass 174	37184	91.2	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2482	6.08	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY5252-IC5252	Y122448.D	04/26/12	17:39	00:39	Initial cal 10
VY5252-IC5252	Y122449.D	04/26/12	18:09	01:09	Initial cal 5
VY5252-IC5252	Y122450.D	04/26/12	18:38	01:38	Initial cal 2
ZZZZZZ	Y122450A.D	04/26/12	18:38	01:38	(unrelated sample)
VY5252-IC5252	Y122451.D	04/26/12	19:08	02:08	Initial cal 1
ZZZZZZ	Y122451.D	04/26/12	19:08	02:08	(unrelated sample)
ZZZZZZ	Y122452.D	04/26/12	19:38	02:38	(unrelated sample)
VY5252-IC5252	Y122452.D	04/26/12	19:38	02:38	Initial cal 0.5
VY5252-IC5252	Y122453.D	04/26/12	20:08	03:08	Initial cal 20
VY5252-ICC5252	Y122454.D	04/26/12	20:37	03:37	Initial cal 50
VY5252-IC5252	Y122455.D	04/26/12	21:07	04:07	Initial cal 75
VY5252-IC5252	Y122456.D	04/26/12	21:37	04:37	Initial cal 100
VY5252-IC5252	Y122457.D	04/26/12	22:06	05:06	Initial cal 200
VY5252-ICV5252	Y122459.D	04/26/12	23:05	06:05	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: VY5408-BFB
Lab File ID: Y125911.D
Instrument ID: GCMSY
Injection Date: 09/07/12
Injection Time: 21:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	5142	16.7		Pass
75	30.0 - 60.0% of mass 95	13476	43.8		Pass
95	Base peak, 100% relative abundance	30786	100.0		Pass
96	5.0 - 9.0% of mass 95	2048	6.65		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	30101	97.8		Pass
175	5.0 - 9.0% of mass 174	2421	7.86	(8.04) [a]	Pass
176	95.0 - 101.0% of mass 174	29144	94.7	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1992	6.47	(6.84) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY5408-CC5252	Y125912.D	09/07/12	22:06	00:29	Continuing cal 50
VY5408-MB	Y125914.D	09/07/12	23:05	01:28	Method Blank
VY5408-BS	Y125915.D	09/07/12	23:35	01:58	Blank Spike
JB15629-5MS	Y125916.D	09/08/12	00:04	02:27	Matrix Spike
JB15629-5MSD	Y125917.D	09/08/12	00:34	02:57	Matrix Spike Duplicate
JB15629-5	Y125919.D	09/08/12	01:32	03:55	(used for QC only; not part of job JB15113R)
ZZZZZZ	Y125920.D	09/08/12	02:02	04:25	(unrelated sample)
ZZZZZZ	Y125921.D	09/08/12	02:31	04:54	(unrelated sample)
JB15113-4R	Y125922.D	09/08/12	03:00	05:23	046-PE 7B-1.5'-2'
ZZZZZZ	Y125924.D	09/08/12	03:59	06:22	(unrelated sample)
ZZZZZZ	Y125925.D	09/08/12	04:28	06:51	(unrelated sample)
ZZZZZZ	Y125926.D	09/08/12	04:57	07:20	(unrelated sample)
ZZZZZZ	Y125927.D	09/08/12	05:26	07:49	(unrelated sample)
ZZZZZZ	Y125928.D	09/08/12	05:55	08:18	(unrelated sample)
ZZZZZZ	Y125929.D	09/08/12	06:25	08:48	(unrelated sample)
ZZZZZZ	Y125930.D	09/08/12	06:54	09:17	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	VY5408-CC5252	**Injection Date:**	09/07/12
Lab File ID:	Y125912.D	**Injection Time:**	22:06
Instrument ID:	GCMSY	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	47096	7.67	120692	9.84	176748	10.76	153808	13.84	77449	16.12
Upper Limit [a]	94192	8.17	241384	10.34	353496	11.26	307616	14.34	154898	16.62
Lower Limit [b]	23548	7.17	60346	9.34	88374	10.26	76904	13.34	38725	15.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VY5408-MB	51053	7.68	128175	9.84	187164	10.76	156561	13.84	70724	16.12
VY5408-BS	46511	7.67	116150	9.84	170036	10.76	147486	13.84	75177	16.12
JB15629-5MS	54976	7.67	130273	9.84	191737	10.76	163819	13.84	82750	16.12
JB15629-5MSD	55778	7.67	139796	9.84	201723	10.76	176529	13.84	86873	16.12
JB15629-5	56019	7.67	145701	9.84	212981	10.76	177925	13.84	79952	16.12
ZZZZZZ	39148	7.67	133870	9.84	193649	10.76	159427	13.84	68604	16.12
ZZZZZZ	34370	7.68	129607	9.84	188374	10.76	148514	13.84	59438	16.12
JB15113-4R	47683	7.67	132299	9.84	191674	10.76	159175	13.84	70736	16.12
ZZZZZZ	41191	7.67	132368	9.84	190394	10.76	156529	13.84	72027	16.12
ZZZZZZ	38159	7.67	126256	9.84	182347	10.76	151173	13.84	68315	16.12
ZZZZZZ	47213	7.67	153282	9.84	219169	10.76	181691	13.84	80070	16.12
ZZZZZZ	50028	7.67	152326	9.84	216545	10.76	177744	13.84	79174	16.12
ZZZZZZ	50435	7.67	150935	9.84	215800	10.76	178276	13.84	81450	16.12
ZZZZZZ	37521	7.67	145562	9.84	211216	10.76	171042	13.84	77562	16.12
ZZZZZZ	46778	7.66	152520	9.84	218258	10.76	182157	13.84	82372	16.12

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB15113-4R	Y125922.D	107.0	97.0	108.0	97.0
JB15629-5MS	Y125916.D	111.0	99.0	110.0	91.0
JB15629-5MSD	Y125917.D	108.0	97.0	111.0	93.0
VY5408-BS	Y125915.D	109.0	95.0	110.0	90.0
VY5408-MB	Y125914.D	108.0	101.0	108.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = 1,2-Dichloroethane-D4	70-122%
S3 = Toluene-D8	81-127%
S4 = 4-Bromofluorobenzene	66-132%

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICC5252
Lab FileID: Y122454.D

Response Factor Report MSY

```
Method       : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri May 04 14:44:51 2012
Response via : Initial Calibration

Calibration Files
5   =Y122449.D   10  =Y122448.D   0.5 =Y122452.D   50  =Y122454.D
100 =Y122456.D   1   =Y122451.D   200 =Y122457.D   20  =Y122453.D
2   =Y122450.D   75  =Y122455.D       =                =

Compound
        5     10    0.5   50    100   1     200   20    2     75     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.090 0.094       0.115 0.112       0.102 0.116       0.104  0.105    9.75
3)  tertiary butyl alcohol
     1.187 1.182       1.282 1.234 1.106 1.129 1.268 1.137 1.187  1.190    5.15

4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  freon 141b
     0.425 0.463       0.388 0.418 0.429 0.318 0.384 0.435 0.404  0.407   10.16
6)  freon 142b
     0.378 0.413       0.348 0.312 0.369 0.280 0.350 0.379 0.359  0.354   11.03
7)  freon 143a
     0.177 0.207       0.158 0.168 0.158 0.189 0.164 0.161 0.166  0.172    9.59
8)  chlorodifluoromethane
     0.292 0.328       0.278 0.290       0.275 0.282 0.256 0.288  0.286    7.12
9)  dichlorodifluoromethane
     0.406 0.453       0.388 0.395       0.394 0.376 0.436 0.400  0.406    6.33
10)  chloromethane
     0.474 0.493 0.458 0.438 0.441 0.468 0.426 0.459 0.569 0.443  0.467    8.77
11)  vinyl chloride
     0.392 0.420       0.365 0.373 0.353 0.359 0.380 0.447 0.373  0.385    7.96
12)  bromomethane
     0.330 0.330       0.284 0.271 0.324       0.310 0.389 0.272  0.314   12.45
13)  chloroethane
     0.225 0.240       0.204 0.204             0.216 0.267 0.205  0.223   10.53
14)  Vinyl Bromide
     0.265 0.270       0.235 0.297 0.244 0.251 0.236 0.242 0.242  0.254    8.03
15)  trichlorofluoromethane
     0.488 0.528       0.444 0.447 0.430 0.433 0.453 0.582 0.450  0.473   10.88
16)  ethyl ether
     0.204 0.212       0.211 0.213 0.251 0.204 0.203 0.231 0.211  0.215    7.30
17)  2-chloropropane
     0.121 0.138       0.123 0.127       0.118 0.128 0.132 0.124  0.126    5.19
18)  acrolein
     0.060 0.061 0.066 0.059 0.064 0.061 0.062 0.057 0.057 0.060  0.061    4.67
19)  1,1-dichloroethene
     0.487 0.533       0.443 0.427       0.392 0.467       0.443  0.456    9.91
20)  acetone
     0.026 0.033       0.026 0.028       0.026 0.029       0.029  0.028    8.16
21)  allyl chloride
     0.189 0.214       0.188 0.193       0.178 0.197 0.181 0.189  0.191    5.77
22)  acetonitrile
     0.029 0.032       0.027 0.033       0.029 0.031       0.037  0.031    9.74
23)  iodomethane
```

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICC5252
Lab FileID: Y122454.D

	0.594	0.671	0.575	0.632	0.645	0.627	0.611	0.653	0.638	0.634	0.628	4.50
24)	iso-butyl alcohol											
	0.014	0.013		0.012	0.012		0.010	0.011	0.011	0.012	0.012	9.60
25)	carbon disulfide											
	0.955	1.066	0.970	0.922	0.933	0.971	0.866	0.958	1.001	0.931	0.957	5.49
26)	1-chloropropane											
	0.023	0.026		0.024	0.025		0.023	0.027		0.025	0.025	5.95
27)	methylene chloride											
	0.401	0.451		0.407	0.399		0.364	0.453		0.399	0.411	7.70
28)	methyl acetate											
	0.034	0.044		0.048	0.052		0.048	0.044		0.051	0.046	13.60
29)	methyl tert butyl ether											
	1.080	1.143	1.212	1.125	1.128	1.227	1.051	1.097	1.165	1.118	1.135	4.85
30)	trans-1,2-dichloroethene											
	0.344	0.370	0.335	0.329	0.326	0.405	0.300	0.352	0.371	0.327	0.346	8.66
31)	di-isopropyl ether											
	1.195	1.292		1.190	1.187	1.360	1.115	1.186	1.139	1.193	1.206	6.23
32)	ethyl tert-butyl ether											
	1.240	1.316		1.252	1.250	1.371	1.173	1.231	1.174	1.256	1.251	4.99
33)	2-butanone											
	0.033	0.042		0.037	0.040		0.037	0.038		0.040	0.038	7.01
34)	1,1-dichloroethane											
	0.609	0.673	0.594	0.604	0.595	0.677	0.549	0.642	0.660	0.601	0.620	6.65
35)	chloroprene											
	0.472	0.520		0.432	0.434	0.466	0.404	0.454	0.447	0.437	0.452	7.25
36)	acrylonitrile											
	0.097	0.101		0.100	0.101	0.082	0.092	0.098	0.092	0.102	0.096	6.79
37)	vinyl acetate											
		0.048		0.055	0.059		0.055	0.049		0.058	0.054	8.28
38)	ethyl acetate											
	0.035	0.044		0.041	0.043		0.040	0.039		0.043	0.041	7.93
39)	2,2-dichloropropane											
	0.515	0.558	0.497	0.463	0.462	0.533	0.430	0.495	0.556	0.462	0.497	8.72
40)	cis-1,2-dichloroethene											
	0.406	0.430	0.414	0.404	0.399	0.428	0.371	0.423	0.446	0.404	0.412	5.07
41)	propionitrile											
	0.039	0.041		0.041	0.041		0.039	0.042	0.036	0.042	0.040	5.08
42)	bromochloromethane											
	0.204	0.217		0.218	0.217	0.195	0.203	0.213	0.216	0.215	0.211	3.86
43)	tetrahydrofuran											
	0.124	0.114		0.101	0.100		0.093	0.104		0.102	0.105	9.81
44)	chloroform											
	0.671	0.710	0.798	0.651	0.642	0.801	0.596	0.688	0.753	0.646	0.696	9.94
45)	tert-Butyl Formate											
	0.129	0.137		0.150	0.165		0.167	0.124		0.161	0.148	12.02
46)	dibromofluoromethane (s)											
	0.379	0.354		0.351	0.341		0.330	0.349		0.352	0.351	4.30
47)	1,2-dichloroethane-d4 (s)											
	0.421	0.397		0.381	0.368		0.347	0.383		0.380	0.383	6.04
48)	freon 113											
	0.244	0.264		0.218	0.223		0.209	0.214		0.217	0.227	8.70
49)	methacrylonitrile											
	0.114	0.127		0.126	0.131		0.124	0.123	0.098	0.130	0.122	8.91
50)	1,1,1-trichloroethane											
	0.525	0.564	0.481	0.485	0.488	0.518	0.454	0.507	0.555	0.487	0.506	6.82
51)	Cyclohexane											
	0.456	0.491	0.427	0.394	0.383	0.420	0.355	0.397	0.468	0.389	0.418	10.20
52)	2,2,4-trimethylpentane											
	1.138	1.229		0.938	0.924	1.218	0.855	0.956	1.043	0.932	1.026	13.44
53)	tert-amyl methyl ether											

```
      1.180 1.212       1.115 1.080 1.350 0.995 1.105 1.137 1.105  1.142    8.67

54) I   1,4-difluorobenzene   ----------------ISTD--------------------
55)  epichlorohydrin
      0.022 0.022       0.021 0.022       0.021 0.020       0.023  0.022    3.76
56)  n-butyl alcohol
      0.007 0.006       0.007 0.007       0.007 0.006       0.007  0.007#   4.86
57)  carbon tetrachloride
      0.325 0.343 0.308 0.297 0.298 0.325 0.274 0.308 0.355 0.297  0.313    7.76
58)  1,1-dichloropropene
      0.319 0.333 0.306 0.287 0.286 0.343 0.262 0.309 0.345 0.287  0.308    9.01
59)  hexane
      0.313 0.276       0.222 0.219       0.203 0.224       0.219  0.239   16.56
            ----- Linear regression -----  Coefficient =  0.9986
              Response Ratio = 0.01748 + 0.20149 *A

60)  Tert Amyl Alcohol
      0.031 0.032       0.030 0.032 0.033 0.029 0.030 0.033 0.032  0.031    4.57
61)  benzene
      1.009 1.051 1.127 0.951 0.918 1.148 0.826 1.030 1.157 0.925  1.014   10.85
62)  heptane
      0.159 0.169       0.137 0.140 0.154 0.131 0.137 0.140 0.137  0.145    8.72
63)  isopropyl acetate
      0.090 0.100       0.093 0.096       0.087 0.098 0.078 0.094  0.092    7.69
64)  1,2-dichloroethane
      0.354 0.362 0.336 0.353 0.345 0.396 0.318 0.363 0.373 0.346  0.355    5.97
65)  trichloroethene
      0.256 0.271       0.246 0.248 0.271 0.229 0.264 0.268 0.248  0.256    5.50
66)  ethyl acrylate
      0.243 0.266       0.278 0.286 0.262 0.268 0.259 0.296 0.288  0.272    6.08
67)  2-nitropropane
      0.082 0.081       0.079 0.083       0.077 0.081 0.083 0.082  0.081    2.48
68)  2-chloroethyl vinyl ether
      0.072 0.075       0.079 0.082 0.068 0.079 0.074 0.066 0.082  0.075    7.97
69)  methyl methacrylate
      0.157 0.158       0.161 0.166       0.152 0.167 0.152 0.165  0.160    3.66
70)  1,2-dichloropropane
      0.258 0.269       0.260 0.255 0.287 0.232 0.273 0.291 0.254  0.264    6.79
71)  methylcyclohexane
      0.380 0.399       0.321 0.317 0.390 0.291 0.328 0.335 0.320  0.342   11.01
72)  Tert-amyl ethyl ether
      0.642 0.663       0.656 0.647       0.601 0.662       0.654  0.647    3.32
73)  dibromomethane
      0.165 0.169 0.123 0.171 0.172 0.175 0.162 0.172 0.171 0.170  0.165    9.29
74)  bromodichloromethane
      0.364 0.382 0.364 0.386 0.388 0.411 0.366 0.396 0.393 0.384  0.384    4.00
75)  cis-1,3-dichloropropene
      0.449 0.455 0.404 0.463 0.461 0.495 0.430 0.474 0.475 0.458  0.456    5.49
76)  toluene-d8 (s)
      1.035 0.944       0.871 0.822       0.765 0.895       0.860  0.885    9.80
77)  4-methyl-2-pentanone
      0.094 0.092       0.093 0.096       0.088 0.100       0.095  0.094    3.99
78)  toluene
      1.103 1.144 1.212 1.049 1.025 1.261 0.921 1.140 1.222 1.030  1.110    9.54
79)  3-methyl-1-butanol
      0.007 0.007       0.007 0.007 0.006 0.006 0.006 0.006 0.007  0.007#   7.46
80)  trans-1,3-dichloropropene
      0.390 0.406       0.413 0.412 0.410 0.382 0.421 0.401 0.407  0.405    3.00
81)  ethyl methacrylate
      0.321 0.320       0.327 0.336 0.355 0.312 0.344 0.315 0.329  0.329    4.26
```

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICC5252
Lab FileID: Y122454.D

```
 82)  1,1,2-trichloroethane
       0.197 0.206 0.154 0.203 0.204 0.224 0.190 0.214 0.215 0.203  0.201    9.48
 83)  2-hexanone
       0.097 0.096       0.091 0.097       0.081 0.101       0.095  0.094    6.77

 84) I   chlorobenzene-d5      ----------------ISTD---------------------
 85)  tetrachloroethene
       0.335 0.360 0.340 0.311 0.314 0.358 0.289 0.346 0.380 0.313  0.335    8.24
 86)  1,3-dichloropropane
       0.436 0.438 0.406 0.427 0.417 0.483 0.381 0.455 0.465 0.419  0.433    6.89
 87)  butyl acetate
       0.173 0.178       0.173 0.171       0.153 0.171 0.144 0.172  0.167    7.02
 88)  dibromochloromethane
       0.330 0.335 0.298 0.348 0.356 0.369 0.335 0.367 0.340 0.348  0.343    6.02
 89)  1,2-dibromoethane
       0.279 0.283 0.231 0.284 0.289 0.298 0.270 0.295 0.286 0.285  0.280    6.73
 90)  3,3-Dimethyl-1-Butanol
       0.029 0.026       0.026 0.027       0.025 0.025 0.023 0.027  0.026    6.45
 91)  chlorobenzene
       0.838 0.862       0.826 0.815 0.994 0.752 0.909 0.954 0.809  0.862    8.89
 92)  1,1,1,2-tetrachloroethane
       0.307 0.318 0.303 0.308 0.302 0.357 0.279 0.348 0.340 0.301  0.316    7.71
 93)  ethylbenzene
       1.340 1.401 1.472 1.245 1.221 1.511 1.097 1.412 1.526 1.225  1.345   10.67
 94)  m,p-xylene
       0.527 0.544 0.554 0.482 0.464 0.609 0.415 0.550 0.586 0.470  0.520   11.62
 95)  o-xylene
       0.537 0.555       0.520 0.516 0.593 0.470 0.586 0.590 0.514  0.542    7.74
 96)  styrene
       0.896 0.937       0.900 0.880 1.019 0.789 1.010 0.963 0.884  0.920    7.79
 97)  bromoform
       0.206 0.219 0.193 0.230 0.242 0.246 0.229 0.250 0.219 0.235  0.227    7.94

 98) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 99)  isopropylbenzene
       2.639 2.811       2.479 2.508 2.997 2.314 2.833 2.932 2.477  2.666    8.89
100)  4-bromofluorobenzene (s)
       0.999 0.783       0.843 0.808       0.772 0.847       0.836  0.841    8.99
101)  bromobenzene
       0.778 0.816 0.768 0.772 0.762 0.926 0.705 0.877 0.871 0.758  0.803    8.45
102)  cyclohexanone
       0.135 0.129       0.083 0.097       0.084 0.118       0.095  0.106   20.11
             ----- Linear regression -----  Coefficient =  0.9930
               Response Ratio = 0.10990 + 0.08307 *A

103)  1,1,2,2-tetrachloroethane
       0.743 0.741       0.718 0.747 1.011 0.701 0.821 0.786 0.728  0.777   12.20
104)  trans-1,4-dichloro-2-butene
       0.176 0.183       0.190 0.203 0.171 0.190 0.211 0.154 0.195  0.186    9.22
105)  1,2,3-trichloropropane
       0.177 0.179       0.167 0.169 0.218 0.154 0.196 0.184 0.168  0.179   10.55
106)  n-propylbenzene
       3.132 3.305       2.863 2.865 3.661 2.611 3.319 3.574 2.849  3.131   11.49
107)  4-Ethyltoluene
       2.463 2.632       2.294 2.290       2.159 2.464       2.319  2.374    6.55
108)  2-chlorotoluene
       0.676 0.690       0.622 0.615       0.572 0.729       0.613  0.646    8.45
109)  4-chlorotoluene
       2.088 2.187       1.965 1.983       1.854 2.278 2.363 1.953  2.084    8.51
110)  1,3,5-trimethylbenzene
```

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICC5252
Lab FileID: Y122454.D

```
       2.338 2.425       2.107 2.109       1.939 2.467 2.549 2.096  2.254    9.71
111)  tert-butylbenzene
       1.894 1.992       1.751 1.801 2.219 1.702 2.026 2.154 1.775  1.924    9.59
112)  pentachloroethane
       0.454 0.485       0.483 0.489 0.563 0.470 0.543 0.493 0.477  0.495    7.08
113)  1,2,4-trimethylbenzene
       2.328 2.450       2.214 2.228       2.055 2.575 2.641 2.208  2.337    8.63
114)  sec-butylbenzene
       2.853 2.978       2.566 2.616       2.437 2.990 3.196 2.591  2.778    9.50
115)  1,3-dichlorobenzene
       1.471 1.490       1.399 1.404       1.313 1.595 1.642 1.397  1.464    7.51
116)  p-isopropyltoluene
       2.365 2.524       2.167 2.214       2.060 2.533 2.633 2.191  2.336    8.93
117)  1,4-dichlorobenzene
       1.474 1.487       1.398 1.406       1.316 1.577 1.705 1.402  1.471    8.30
118)  1,2-dichlorobenzene
       1.400 1.427       1.377 1.391       1.293 1.563 1.582 1.381  1.427    6.88
119)  n-butylbenzene
       1.261 1.343       1.138 1.142 1.494 1.057 1.337 1.415 1.144  1.259   11.74
120)  p-Diethylbenzene
       1.366 1.480       1.324 1.321       1.253 1.394       1.353  1.356    5.19
121)  1,2-dibromo-3-chloropropane
       0.133 0.137       0.141 0.152 0.151 0.145 0.155 0.117 0.146  0.142    8.23
122)  1,3,5-Trichlorobenzene
       1.147 1.239       1.141 1.138       1.056 1.269 1.364 1.138  1.187    8.22
123)  1,2,4-trichlorobenzene
       1.032 1.091       1.042 1.039       0.984 1.120 1.148 1.036  1.062    5.04
124)  1,2,4,5-tetramethylbenzene
       2.189 2.391       2.318 2.294       2.158 2.350       2.347  2.292    3.79
125)  hexachlorobutadiene
       0.577 0.654       0.548 0.545       0.520 0.648 0.692 0.546  0.591   10.83
126)  naphthalene
       1.978 1.964       2.038 2.055       1.900 2.156 2.168 2.006  2.033    4.56
127)  1,2,3-trichlorobenzene
       0.931 0.948       0.945 0.923       0.860 1.014 1.040 0.913  0.947    6.03
128)  hexachloroethane
       0.410 0.460       0.447 0.477 0.494 0.468 0.507 0.449 0.448  0.462    6.22
129)  Benzyl chloride
       1.273 1.325       1.254 1.300       1.235 1.186 1.139 1.284  1.249    4.93
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MYS5252.M         Fri May 04 14:54:11 2012   RPT1
```

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICV5252
Lab FileID: Y122459.D

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\olddata...2000-122999\Y122459.D Vial: 23
Acq On : 26 Apr 2012 11:05 pm Operator: RobertS
Sample : ICV5252-50 Inst : MSY
Misc : MS28551,VY5252,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri May 04 14:44:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.00	7.68
2		1,4-dioxane	0.105	0.111	-5.7	100	0.00	11.49
3		tertiary butyl alcohol	1.190	1.272	-6.9	102	0.00	7.79
4	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.85
5		freon 141b	0.407	0.427	-4.9	114	0.00	6.54
6		freon 142b	0.354	0.383	-8.2	114	0.00	4.44
7		freon 143a	0.172	0.170	1.2	112	0.00	3.82
8		chlorodifluoromethane	0.286	0.275	3.8	103	0.00	4.20
9		dichlorodifluoromethane	0.406	0.427	-5.2	114	0.00	4.16
10		chloromethane	0.467	0.449	3.9	106	0.00	4.53
11		vinyl chloride	0.385	0.382	0.8	109	0.00	4.79
12		bromomethane	0.314	0.296	5.7	108	0.00	5.47
13		chloroethane	0.223	0.214	4.0	109	0.00	5.65
14		Vinyl Bromide	0.254	0.254	0.0	112	0.00	6.01
15		trichlorofluoromethane	0.473	0.487	-3.0	114	0.00	6.10
16		ethyl ether	0.215	0.222	-3.3	109	0.00	6.51
17		2-chloropropane	0.126	0.132	-4.8	111	0.00	6.73
18		acrolein	0.061	0.057	6.6	99	0.00	6.84
19		1,1-dichloroethene	0.456	0.479	-5.0	112	0.00	6.95
20		acetone	0.028	0.027	3.6	106	0.00	7.06
21		allyl chloride	0.191	0.202	-5.8	111	0.00	7.50
22		acetonitrile	0.031	0.030	3.2	112	0.00	7.55
23		iodomethane	0.628	0.676	-7.6	111	0.00	7.26
24		iso-butyl alcohol	0.012	0.011	8.3	100	0.00	10.18
25		carbon disulfide	0.957	0.988	-3.2	111	0.00	7.37
26		1-chloropropane	0.025	0.027	-8.0	117	0.00	7.72
27		methylene chloride	0.411	0.415	-1.0	106	0.00	7.71
28		methyl acetate	0.046	0.046	0.0	100	0.00	7.50
29		methyl tert butyl ether	1.135	1.12	1.3	104	0.00	7.98
30		trans-1,2-dichloroethene	0.346	0.339	2.0	107	0.00	8.05
31		di-isopropyl ether	1.206	1.205	0.1	105	0.00	8.55
32		ethyl tert-butyl ether	1.251	1.221	2.4	101	0.00	9.02
33		2-butanone	0.038	0.038	0.0	104	0.00	9.35
34		1,1-dichloroethane	0.620	0.635	-2.4	109	0.00	8.63
35		chloroprene	0.452	0.441	2.4	106	0.00	8.72
36		acrylonitrile	0.096	0.099	-3.1	102	0.00	8.08
37		vinyl acetate	0.054	0.062	-14.8	117	0.00	8.61
38		ethyl acetate	0.041	0.042	-2.4	107	0.00	9.33
39		2,2-dichloropropane	0.497	0.482	3.0	108	0.00	9.35
40		cis-1,2-dichloroethene	0.412	0.417	-1.2	107	0.00	9.37
41		propionitrile	0.040	0.041	-2.5	104	0.00	9.50

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICV5252
Lab FileID: Y122459.D

42		bromochloromethane	0.211	0.220	-4.3	105	0.00	9.69
43		tetrahydrofuran	0.105	0.102	2.9	105	0.00	9.71
44		chloroform	0.696	0.691	0.7	110	0.00	9.73
45		tert-Butyl Formate	0.148	0.150	-1.4	104	0.00	9.74
46	S	dibromofluoromethane (s)	0.351	0.347	1.1	102	0.00	9.94
47	S	1,2-dichloroethane-d4 (s)	0.383	0.368	3.9	100	0.00	10.36
48		freon 113	0.227	0.221	2.6	105	0.00	6.89
49		methacrylonitrile	0.122	0.128	-4.9	105	0.00	9.65
50		1,1,1-trichloroethane	0.506	0.514	-1.6	110	0.00	9.96
51		Cyclohexane	0.418	0.436	-4.3	115	0.00	9.99
52		2,2,4-trimethylpentane	1.026	0.946	7.8	105	0.00	10.33
53		tert-amyl methyl ether	1.142	1.120	1.9	104	0.00	10.40
54	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	10.77
55		epichlorohydrin	0.022	0.022	0.0	107	0.00	12.03
56		n-butyl alcohol	0.007	0.007#	0.0	101	0.00	10.91
57		carbon tetrachloride	0.313	0.325	-3.8	113	0.00	10.14
58		1,1-dichloropropene	0.308	0.306	0.6	110	0.00	10.12
		----------	True	Calc.	% Drift	----------		
59		hexane	50.000	48.018	4.0	98	0.00	8.29
		----------	AvgRF	CCRF	% Dev	----------		
60		Tert Amyl Alcohol	0.031	0.029	6.5	102	0.00	10.29
61		benzene	1.014	0.985	2.9	107	0.00	10.40
62		heptane	0.145	0.137	5.5	103	0.00	10.50
63		isopropyl acetate	0.092	0.094	-2.2	104	0.00	10.31
64		1,2-dichloroethane	0.355	0.364	-2.5	107	0.00	10.45
65		trichloroethene	0.256	0.263	-2.7	110	0.00	11.10
66		ethyl acrylate	0.272	0.268	1.5	99	0.00	11.10
67		2-nitropropane	0.081	0.081	0.0	106	0.00	11.90
68		2-chloroethyl vinyl ether	0.075	0.082	-9.3	107	0.00	11.88
69		methyl methacrylate	0.160	0.166	-3.8	106	0.00	11.35
70		1,2-dichloropropane	0.264	0.267	-1.1	106	0.00	11.38
71		methylcyclohexane	0.342	0.313	8.5	101	0.00	11.27
72		Tert-amyl ethyl ether	0.647	0.654	-1.1	103	0.00	11.21
73		dibromomethane	0.165	0.178	-7.9	108	0.00	11.55
74		bromodichloromethane	0.384	0.390	-1.6	104	0.00	11.67
75		cis-1,3-dichloropropene	0.456	0.443	2.9	99	0.00	12.10
76	S	toluene-d8 (s)	0.885	0.864	2.4	102	0.00	12.36
77		4-methyl-2-pentanone	0.094	0.093	1.1	104	0.00	12.18
78		toluene	1.110	1.083	2.4	107	0.00	12.43
79		3-methyl-1-butanol	0.007	0.007#	0.0	101	0.00	12.21
80		trans-1,3-dichloropropene	0.405	0.422	-4.2	105	0.00	12.66
81		ethyl methacrylate	0.329	0.319	3.0	101	0.00	12.61
82		1,1,2-trichloroethane	0.201	0.204	-1.5	104	0.00	12.87
83		2-hexanone	0.094	0.090	4.3	102	0.00	13.02
84	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.85
85		tetrachloroethene	0.335	0.333	0.6	110	0.00	12.99
86		1,3-dichloropropane	0.433	0.426	1.6	103	0.00	13.05
87		butyl acetate	0.167	0.172	-3.0	102	0.00	13.06
88		dibromochloromethane	0.343	0.347	-1.2	103	0.00	13.31
89		1,2-dibromoethane	0.280	0.282	-0.7	102	0.00	13.46
90		3,3-Dimethyl-1-Butanol	0.026	0.026	0.0	102	0.00	13.18
91		chlorobenzene	0.862	0.848	1.6	106	0.00	13.88
92		1,1,1,2-tetrachloroethane	0.316	0.320	-1.3	107	0.00	13.94
93		ethylbenzene	1.345	1.286	4.4	107	0.00	13.92
94		m,p-xylene	0.520	0.496	4.6	106	0.00	14.02
95		o-xylene	0.542	0.536	1.1	107	0.00	14.43

Initial Calibration Verification

Job Number: JB15113R
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Project: 508 West 24th Street, Manhattan, NY
Sample: VY5252-ICV5252
Lab FileID: Y122459.D

96		styrene	0.920	0.911	1.0	105	0.00	14.45
97		bromoform	0.227	0.234	-3.1	105	0.00	14.75
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	16.13
99		isopropylbenzene	2.666	2.569	3.6	107	0.00	14.76
100	S	4-bromofluorobenzene (s)	0.841	0.830	1.3	102	0.00	14.98
101		bromobenzene	0.803	0.789	1.7	106	0.00	15.18
		----------	True	Calc.	% Drift	----------		
102		cyclohexanone	500.000	452.449	9.5	107	0.00	14.98
		----------	AvgRF	CCRF	% Dev	----------		
103		1,1,2,2-tetrachloroethane	0.777	0.690	11.2	99	0.00	15.11
104		trans-1,4-dichloro-2-bute	0.186	0.195	-4.8	106	0.00	15.15
105		1,2,3-trichloropropane	0.179	0.166	7.3	102	0.00	15.18
106		n-propylbenzene	3.131	3.018	3.6	109	0.00	15.16
107		4-Ethyltoluene	2.374	2.278	4.0	103	0.00	15.26
108		2-chlorotoluene	0.646	0.635	1.7	105	0.00	15.32
109		4-chlorotoluene	2.084	1.970	5.5	104	0.00	15.42
110		1,3,5-trimethylbenzene	2.254	2.174	3.5	107	0.00	15.31
111		tert-butylbenzene	1.924	1.845	4.1	109	0.00	15.65
112		pentachloroethane	0.495	0.501	-1.2	107	0.00	15.76
113		1,2,4-trimethylbenzene	2.337	2.303	1.5	107	0.00	15.70
114		sec-butylbenzene	2.778	2.691	3.1	108	0.00	15.86
115		1,3-dichlorobenzene	1.464	1.424	2.7	105	0.00	16.08
116		p-isopropyltoluene	2.336	2.325	0.5	111	0.00	15.98
117		1,4-dichlorobenzene	1.471	1.401	4.8	104	0.00	16.15
118		1,2-dichlorobenzene	1.427	1.380	3.3	104	0.00	16.55
119		n-butylbenzene	1.259	1.174	6.8	107	0.00	16.38
120		p-Diethylbenzene	1.356	1.313	3.2	102	0.00	16.35
121		1,2-dibromo-3-chloropropa	0.142	0.139	2.1	102	0.00	17.34
122		1,3,5-Trichlorobenzene	1.187	1.111	6.4	101	0.00	17.48
123		1,2,4-trichlorobenzene	1.062	1.040	2.1	103	0.00	18.13
124		1,2,4,5-tetramethylbenzen	2.292	2.269	1.0	101	0.00	17.14
125		hexachlorobutadiene	0.591	0.574	2.9	108	0.00	18.22
126		naphthalene	2.033	1.991	2.1	101	0.00	18.43
127		1,2,3-trichlorobenzene	0.947	0.913	3.6	100	0.00	18.68
128		hexachloroethane	0.462	0.469	-1.5	108	0.00	16.78
129		Benzyl chloride	1.249	1.324	-6.0	109	0.00	16.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y122454.D MYS5252.M Fri May 04 14:51:41 2012 RPT1

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: VY5408-CC5252
Lab FileID: Y125912.D

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\Y125912.D Vial: 26
Acq On : 7 Sep 2012 10:06 pm Operator: ROBERTS
Sample : CC5252-50 Inst : MSY
Misc : MS35058,VY5408,5.0,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MYS5252.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Aug 03 11:08:26 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	127	0.00	7.67
2		1,4-dioxane	0.105	0.113	-7.6	125	0.00	11.49
3		tertiary butyl alcohol	1.190	1.235	-3.8	122	0.00	7.78
4	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	9.84
5		freon 141b		----------NA----------				
6		freon 142b		----------NA----------				
7		freon 143a		----------NA----------				
8		chlorodifluoromethane	0.286	0.348	-21.7#	126	0.00	4.20
9		dichlorodifluoromethane	0.406	0.409	-0.7	106	0.01	4.17
10		chloromethane	0.467	0.520	-11.3	120	0.00	4.52
11		vinyl chloride	0.385	0.452	-17.4	125	0.00	4.80
12		bromomethane	0.314	0.325	-3.5	115	0.00	5.48
13		chloroethane	0.223	0.250	-12.1	124	0.00	5.65
14		Vinyl Bromide		----------NA----------				
15		trichlorofluoromethane	0.473	0.530	-12.1	120	0.00	6.09
16		ethyl ether	0.215	0.232	-7.9	111	0.00	6.51
17		2-chloropropane	0.126	0.142	-12.7	117	0.00	6.73
18		acrolein	0.061	0.085	-39.3#	145	0.00	6.84
19		1,1-dichloroethene	0.456	0.448	1.8	102	0.00	6.95
20		acetone	0.028	0.031	-10.7	119	0.00	7.06
21		allyl chloride	0.191	0.207	-8.4	111	0.00	7.49
22		acetonitrile	0.031	0.045	-45.2#	165	0.00	7.54
23		iodomethane	0.628	0.646	-2.9	103	0.00	7.25
24		iso-butyl alcohol	0.012	0.015	-25.0#	128	0.00	10.16
25		carbon disulfide	0.957	1.053	-10.0	115	0.00	7.36
26		1-chloropropane	0.025	0.028	-12.0	114	0.00	7.71
27		methylene chloride	0.411	0.434	-5.6	107	0.00	7.70
28		methyl acetate	0.046	0.065	-41.3#	136	0.00	7.49
29		methyl tert butyl ether	1.135	1.127	0.7	101	0.00	7.98
30		trans-1,2-dichloroethene	0.346	0.348	-0.6	107	0.00	8.04
31		di-isopropyl ether	1.206	1.348	-11.8	114	0.00	8.55
32		ethyl tert-butyl ether	1.251	1.435	-14.7	116	0.00	9.01
33		2-butanone	0.038	0.043	-13.2	116	0.00	9.34
34		1,1-dichloroethane	0.620	0.674	-8.7	112	0.00	8.62
35		chloroprene	0.452	0.465	-2.9	109	0.00	8.71
36		acrylonitrile	0.096	0.133	-38.5#	134	0.00	8.07
37		vinyl acetate	0.054	0.063	-16.7	115	0.00	8.60
38		ethyl acetate	0.041	0.055	-34.1#	134	0.00	9.32
39		2,2-dichloropropane	0.497	0.459	7.6	100	0.00	9.35
40		cis-1,2-dichloroethene	0.412	0.425	-3.2	106	0.00	9.36
41		propionitrile	0.040	0.053	-32.5#	133	-0.01	9.48

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5408-CC5252
Lab FileID: Y125912.D

42		bromochloromethane	0.211	0.220	-4.3	102	-0.01	9.68
43		tetrahydrofuran	0.105	0.129	-22.9#	129	0.00	9.70
44		chloroform	0.696	0.697	-0.1	108	0.00	9.72
45		tert-Butyl Formate	0.148	0.244	-64.9#	164	0.00	9.73
46	S	dibromofluoromethane (s)	0.351	0.384	-9.4	110	-0.01	9.93
47	S	1,2-dichloroethane-d4 (s)	0.383	0.361	5.7	95	0.00	10.35
48		freon 113	0.227	0.288	-26.9#	133	0.00	6.90
49		methacrylonitrile	0.122	0.149	-22.1#	119	-0.01	9.63
50		1,1,1-trichloroethane	0.506	0.470	7.1	98	0.00	9.95
51		Cyclohexane	0.418	0.428	-2.4	110	0.00	9.99
52		2,2,4-trimethylpentane	1.026	1.399	-36.4#	150	0.00	10.32
53		tert-amyl methyl ether	1.142	1.282	-12.3	116	0.00	10.39
54	I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	10.76
55		epichlorohydrin	0.022	0.025	-13.6	127	0.00	12.02
56		n-butyl alcohol	0.007	0.009#	-28.6#	136	0.00	10.90
57		carbon tetrachloride	0.313	0.276	11.8	100	0.00	10.14
58		1,1-dichloropropene	0.308	0.286	7.1	108	0.00	10.12
		----------	True	Calc.	% Drift	----------		
59		hexane	50.000	76.833	-53.7#	159	0.00	8.28
		----------	AvgRF	CCRF	% Dev	----------		
60		Tert Amyl Alcohol		----------NA----------				
61		benzene	1.014	0.963	5.0	109	0.00	10.39
62		heptane	0.145	0.181	-24.8#	143	0.00	10.49
63		isopropyl acetate	0.092	0.115	-25.0#	133	0.00	10.30
64		1,2-dichloroethane	0.355	0.318	10.4	97	0.00	10.44
65		trichloroethene	0.256	0.235	8.2	103	0.00	11.09
66		ethyl acrylate		----------NA----------				
67		2-nitropropane	0.081	0.071	12.3	98	0.00	11.90
68		2-chloroethyl vinyl ether	0.075	0.100	-33.3#	135	0.00	11.87
69		methyl methacrylate	0.160	0.170	-6.3	114	0.00	11.35
70		1,2-dichloropropane	0.264	0.285	-8.0	118	0.00	11.37
71		methylcyclohexane	0.342	0.394	-15.2	132	0.00	11.27
72		Tert-amyl ethyl ether		----------NA----------				
73		dibromomethane	0.165	0.167	-1.2	105	0.00	11.54
74		bromodichloromethane	0.384	0.367	4.4	102	0.00	11.66
75		cis-1,3-dichloropropene	0.456	0.448	1.8	104	0.00	12.09
76	S	toluene-d8 (s)	0.885	0.964	-8.9	119	0.00	12.35
77		4-methyl-2-pentanone	0.094	0.106	-12.8	123	0.00	12.18
78		toluene	1.110	0.980	11.7	101	0.00	12.42
79		3-methyl-1-butanol	0.007	0.008#	-14.3	129	0.00	12.21
80		trans-1,3-dichloropropene	0.405	0.390	3.7	102	0.00	12.65
81		ethyl methacrylate	0.329	0.317	3.6	104	0.00	12.60
82		1,1,2-trichloroethane	0.201	0.205	-2.0	109	0.00	12.86
83		2-hexanone	0.094	0.095	-1.1	112	0.00	13.01
84	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.84
85		tetrachloroethene	0.335	0.289	13.7	98	0.00	12.99
86		1,3-dichloropropane	0.433	0.441	-1.8	109	0.00	13.04
87		butyl acetate	0.167	0.192	-15.0	117	0.00	13.06
88		dibromochloromethane	0.343	0.334	2.6	101	-0.01	13.29
89		1,2-dibromoethane	0.280	0.275	1.8	102	0.00	13.45
90		3,3-Dimethyl-1-Butanol	0.026	0.032	-23.1#	128	0.00	13.18
91		chlorobenzene	0.862	0.785	8.9	100	0.00	13.88
92		1,1,1,2-tetrachloroethane	0.317	0.301	5.0	103	0.00	13.93
93		ethylbenzene	1.346	1.158	14.0	98	0.00	13.91
94		m,p-xylene	0.521	0.441	15.4	96	0.00	14.01
95		o-xylene	0.542	0.472	12.9	96	0.00	14.42

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: VY5408-CC5252
Lab FileID: Y125912.D

96		styrene	0.920	0.819	11.0	96	0.00	14.44
97		bromoform	0.227	0.246	-8.4	113	-0.01	14.73
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	16.12
99		isopropylbenzene	2.666	2.206	17.3	96	0.00	14.75
100	S	4-bromofluorobenzene (s)	0.841	0.764	9.2	98	0.00	14.98
101		bromobenzene	0.803	0.731	9.0	102	0.00	15.17
		----------	True	Calc.	% Drift	----------		
102		cyclohexanone	500.000	72.789	85.4#	30	0.00	14.97
		----------	AvgRF	CCRF	% Dev	----------		
103		1,1,2,2-tetrachloroethane	0.777	0.739	4.9	111	-0.01	15.09
104		trans-1,4-dichloro-2-bute	0.186	0.157	15.6	89	0.00	15.14
105		1,2,3-trichloropropane	0.179	0.164	8.4	106	0.00	15.17
106		n-propylbenzene	3.131	2.571	17.9	97	0.00	15.15
107		4-Ethyltoluene		----------NA----------				
108		2-chlorotoluene	0.646	0.596	7.7	103	0.00	15.31
109		4-chlorotoluene	2.084	1.675	19.6	92	0.00	15.41
110		1,3,5-trimethylbenzene	2.254	1.880	16.6	96	0.00	15.30
111		tert-butylbenzene	1.924	1.532	20.4#	95	0.00	15.64
112		pentachloroethane	0.495	0.491	0.8	110	0.00	15.75
113		1,2,4-trimethylbenzene	2.337	1.914	18.1	93	0.00	15.69
114		sec-butylbenzene	2.778	2.304	17.1	97	0.00	15.85
115		1,3-dichlorobenzene	1.464	1.262	13.8	97	-0.01	16.06
116		p-isopropyltoluene	2.336	1.885	19.3	94	0.00	15.97
117		1,4-dichlorobenzene	1.471	1.267	13.9	98	0.00	16.15
118		1,2-dichlorobenzene	1.427	1.305	8.5	102	0.00	16.54
119		n-butylbenzene	1.259	0.947	24.8#	90	0.00	16.38
120		p-Diethylbenzene		----------NA----------				
121		1,2-dibromo-3-chloropropa	0.142	0.144	-1.4	111	0.00	17.33
122		1,3,5-Trichlorobenzene	1.187	1.074	9.5	102	-0.01	17.47
123		1,2,4-trichlorobenzene	1.062	0.873	17.8	91	0.00	18.12
124		1,2,4,5-tetramethylbenzen		----------NA----------				
125		hexachlorobutadiene	0.591	0.527	10.8	104	0.00	18.21
126		naphthalene	2.033	1.638	19.4	87	0.00	18.42
127		1,2,3-trichlorobenzene	0.947	0.828	12.6	95	-0.01	18.67
128		hexachloroethane	0.462	0.447	3.2	108	0.00	16.77
129		Benzyl chloride	1.249	1.137	9.0	98	0.00	16.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y122454.D MYS5252.M Mon Sep 10 10:39:11 2012 RPT1

6.7.3

6

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 10 10:42:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 03 11:08:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.67	65	47683	500.00	ug/L	0.00
4) pentafluorobenzene	9.84	168	132299	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.76	114	191674	50.00	ug/L	0.00
84) chlorobenzene-d5	13.84	117	159175	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.12	152	70736	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	9.93	113	49731	53.54	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.08%			
47) 1,2-dichloroethane-d4 (s)	10.35	65	48972	48.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.76%			
76) toluene-d8 (s)	12.35	98	182989	53.96	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 107.92%			
100) 4-bromofluorobenzene (s)	14.98	95	57885	48.64	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.28%			

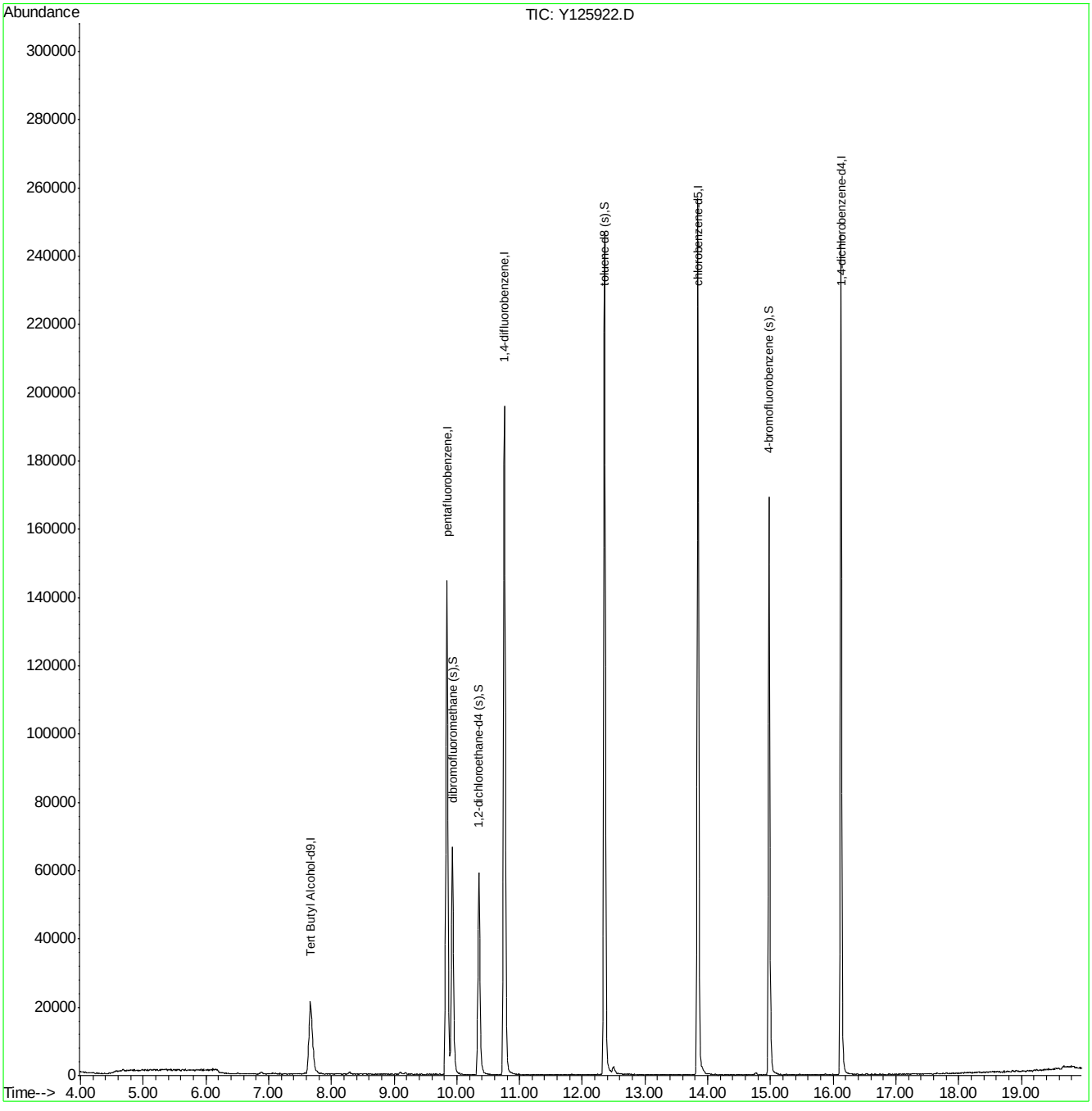
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 10 10:42:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 03 11:08:26 2012
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.461	88	92	94	rBV3	226	273	0.06%	0.010%
2	4.508	94	101	103	rBV3	413	880	0.19%	0.031%
3	4.529	103	105	108	rBV3	287	329	0.07%	0.012%
4	5.031	199	201	206	rBV5	428	451	0.10%	0.016%
5	5.481	285	287	289	rBV	428	267	0.06%	0.010%
6	5.559	297	302	304	rBV2	628	842	0.18%	0.030%
7	6.114	406	408	413	rBV4	602	871	0.19%	0.031%
8	6.155	414	416	444	rVB4	1348	4103	0.89%	0.147%
9	6.501	480	482	485	rVB3	290	280	0.06%	0.010%
10	6.527	485	487	499	rBV3	244	676	0.15%	0.024%
11	6.647	508	510	520	rBV3	180	264	0.06%	0.009%
12	6.882	545	555	565	rBV4	649	1984	0.43%	0.071%
13	7.076	583	592	596	rBV4	343	755	0.16%	0.027%
14	7.181	611	612	617	rBV	338	308	0.07%	0.011%
15	7.259	625	627	633	rVB3	190	292	0.06%	0.010%
16	7.343	642	643	650	rVB3	291	521	0.11%	0.019%
17	7.395	650	653	665	rBV3	316	1069	0.23%	0.038%
18	7.547	678	682	683	rBV3	301	270	0.06%	0.010%
19	7.578	683	688	691	rVV4	451	752	0.16%	0.027%
20	7.667	691	705	732	rVB	21393	85073	18.45%	3.038%
21	7.986	765	766	774	rVB3	251	266	0.06%	0.009%
22	8.284	815	823	834	rVB4	820	2011	0.44%	0.072%
23	8.514	864	867	878	rVB2	172	407	0.09%	0.015%
24	8.703	900	903	912	rBV3	145	300	0.07%	0.011%
25	8.865	932	934	939	rBV	239	317	0.07%	0.011%
26	9.095	968	978	990	rBV	629	1861	0.40%	0.066%
27	9.194	990	997	1006	rVB5	531	1525	0.33%	0.054%
28	9.257	1006	1009	1011	rBV2	202	262	0.06%	0.009%
29	9.273	1011	1012	1019	rVB3	244	326	0.07%	0.012%
30	9.330	1019	1023	1028	rBV3	200	414	0.09%	0.015%
31	9.717	1094	1097	1105	rVB3	261	511	0.11%	0.018%
32	9.843	1108	1121	1130	rBV	144723	336147	72.89%	12.003%
33	9.932	1130	1138	1157	rVB	66417	159470	34.58%	5.694%
34	10.099	1168	1170	1173	rBV2	250	269	0.06%	0.010%

MYS5252.M Mon Sep 10 10:43:26 2012 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.350	1207	1218	1250	rBV	59306	140220	30.41%	5.007%
36	10.523	1250	1251	1256	rVB	289	312	0.07%	0.011%
37	10.758	1285	1296	1330	rBV	195892	415734	90.15%	14.844%
38	11.035	1347	1349	1353	rVB2	258	366	0.08%	0.013%
39	11.088	1356	1359	1367	rBV2	253	547	0.12%	0.020%
40	11.208	1374	1382	1384	rBV	143	338	0.07%	0.012%
41	11.360	1405	1411	1413	rBV2	136	245	0.05%	0.009%
42	11.569	1443	1451	1453	rBV2	150	292	0.06%	0.010%
43	11.663	1468	1469	1476	rBV2	152	249	0.05%	0.009%
44	11.830	1495	1501	1505	rBV2	258	383	0.08%	0.014%
45	11.987	1528	1531	1540	rVB2	120	262	0.06%	0.009%
46	12.275	1583	1586	1589	rBV	209	330	0.07%	0.012%
47	12.353	1589	1601	1622	rVV	246745	461152	100.00%	16.466%
48	12.500	1622	1629	1639	rVV5	2401	6948	1.51%	0.248%
49	12.568	1639	1642	1644	rVV3	368	457	0.10%	0.016%
50	12.589	1645	1646	1660	rVB4	252	637	0.14%	0.023%
51	12.740	1671	1675	1680	rVB3	318	344	0.07%	0.012%
52	12.798	1685	1686	1691	rVB	228	321	0.07%	0.011%
53	12.835	1691	1693	1695	rBV	315	243	0.05%	0.009%
54	13.044	1731	1733	1738	rBV	219	280	0.06%	0.010%
55	13.216	1765	1766	1775	rBV2	213	335	0.07%	0.012%
56	13.844	1876	1886	1919	rBV	256677	444309	96.35%	15.865%
57	14.205	1950	1955	1963	rVB2	182	514	0.11%	0.018%
58	14.315	1973	1976	1981	rVB	184	294	0.06%	0.010%
59	14.346	1981	1982	1987	rBV2	190	282	0.06%	0.010%
60	14.498	2008	2011	2018	rBV2	143	286	0.06%	0.010%
61	14.592	2023	2029	2032	rBV2	222	328	0.07%	0.012%
62	14.770	2056	2063	2069	rVB3	821	1602	0.35%	0.057%
63	14.979	2095	2103	2131	rBV	169240	289751	62.83%	10.346%
64	15.157	2134	2137	2143	rVB2	383	471	0.10%	0.017%
65	15.251	2151	2155	2159	rVB2	294	406	0.09%	0.014%
66	15.314	2165	2167	2171	rVV	220	285	0.06%	0.010%
67	15.366	2175	2177	2184	rVB2	147	259	0.06%	0.009%
68	15.465	2194	2196	2204	rBV3	297	439	0.10%	0.016%
69	15.601	2215	2222	2223	rVB2	164	267	0.06%	0.010%
70	15.732	2243	2247	2251	rBV	134	289	0.06%	0.010%
71	15.879	2272	2275	2277	rBV	367	319	0.07%	0.011%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.994	2295	2297	2299	rBV2	353	274	0.06%	0.010%
73	16.124	2311	2322	2346	rBV	246360	408373	88.55%	14.581%
74	16.260	2347	2348	2362	rVB3	529	1527	0.33%	0.055%
75	16.344	2362	2364	2369	rBV2	347	544	0.12%	0.019%
76	16.391	2369	2373	2375	rVB	389	492	0.11%	0.018%
77	16.407	2375	2376	2381	rBV	256	391	0.08%	0.014%
78	16.459	2381	2386	2388	rVB2	211	280	0.06%	0.010%
79	16.522	2393	2398	2403	rBV3	225	381	0.08%	0.014%
80	16.621	2412	2417	2421	rBV3	283	603	0.13%	0.022%
81	16.674	2425	2427	2433	rVB	210	335	0.07%	0.012%
82	16.741	2433	2440	2445	rBV3	244	499	0.11%	0.018%
83	17.040	2496	2497	2501	rBV2	233	245	0.05%	0.009%
84	17.427	2566	2571	2574	rBV2	206	283	0.06%	0.010%
85	17.563	2595	2597	2602	rVB3	291	273	0.06%	0.010%
86	17.751	2626	2633	2638	rBV2	333	524	0.11%	0.019%
87	17.793	2640	2641	2649	rBV	242	380	0.08%	0.014%
88	17.861	2652	2654	2657	rBV2	219	272	0.06%	0.010%
89	18.096	2696	2699	2704	rBV3	357	486	0.11%	0.017%
90	18.222	2722	2723	2731	rBV5	461	902	0.20%	0.032%
91	18.274	2731	2733	2737	rVV3	419	589	0.13%	0.021%
92	18.316	2738	2741	2744	rVB3	401	562	0.12%	0.020%
93	18.373	2750	2752	2754	rBV2	379	301	0.07%	0.011%
94	18.478	2770	2772	2776	rBV2	410	605	0.13%	0.022%
95	18.719	2816	2818	2823	rVB4	427	526	0.11%	0.019%
96	19.001	2870	2872	2887	rVB5	344	1081	0.23%	0.039%
97	19.095	2888	2890	2906	rVB6	378	1270	0.28%	0.045%
98	19.194	2906	2909	2916	rBV5	542	1047	0.23%	0.037%
99	19.372	2941	2943	2951	rVB6	383	583	0.13%	0.021%
100	19.681	2994	3002	3007	rBV6	950	2556	0.55%	0.091%

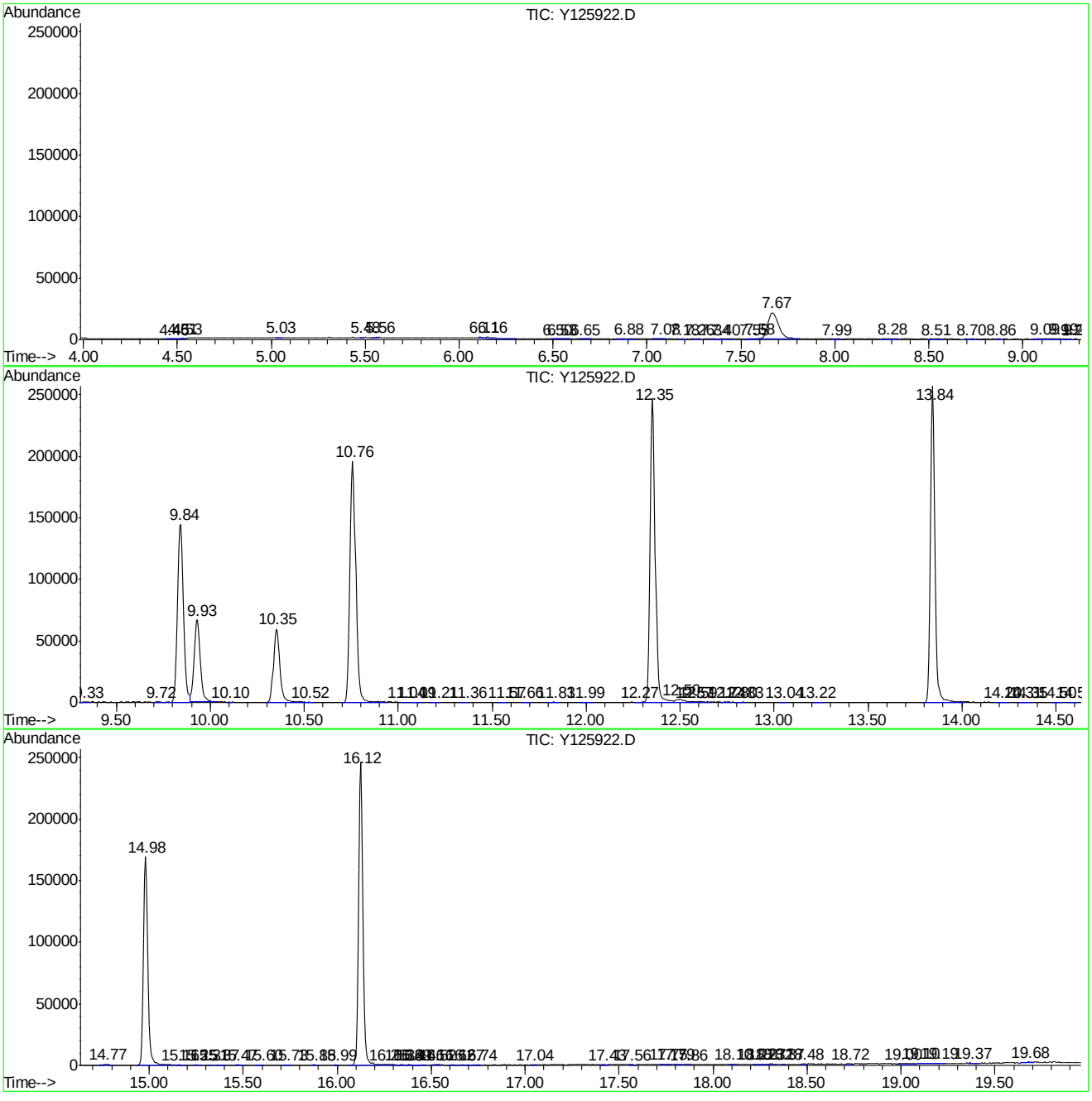
Sum of corrected areas: 2800626

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : Y125922.D
Acq On : 8 Sep 2012 3:00 am
Operator : ROBERTS
Sample : JB15113-4R
Misc : MS35294,VY5408,4.9,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 10 10:40:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 03 11:08:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.68	65	51053	500.00	ug/L	0.00
4) pentafluorobenzene	9.84	168	128175	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.76	114	187164	50.00	ug/L	0.00
84) chlorobenzene-d5	13.84	117	156561	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.12	152	70724	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	9.93	113	48577	53.98	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.96%			
47) 1,2-dichloroethane-d4 (s)	10.35	65	49397	50.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.74%			
76) toluene-d8 (s)	12.35	98	178594	53.93	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 107.86%			
100) 4-bromofluorobenzene (s)	14.98	95	58301	49.00	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.00%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

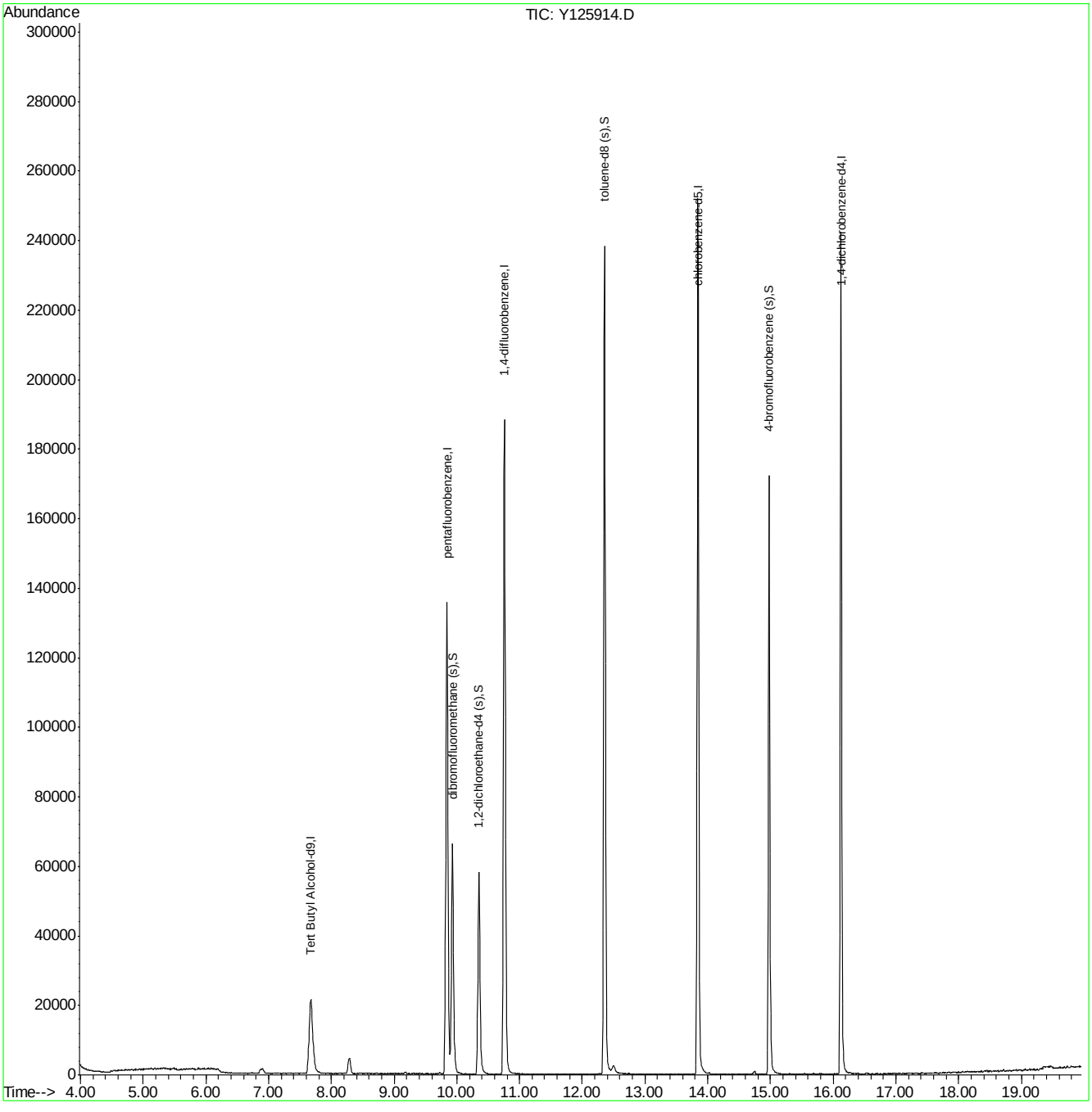
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 10 10:40:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 03 11:08:26 2012
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.487	92	97	101	rBV2	531	911	0.20%	0.033%
2	4.550	102	109	114	rVV3	345	978	0.22%	0.035%
3	5.120	216	218	226	rBV4	517	667	0.15%	0.024%
4	5.188	227	231	235	rBV2	456	616	0.14%	0.022%
5	5.690	325	327	337	rBV4	406	920	0.20%	0.033%
6	6.129	410	411	447	rVB3	1343	6937	1.54%	0.250%
7	6.443	470	471	480	rVB3	149	300	0.07%	0.011%
8	6.736	524	527	534	rVB3	216	234	0.05%	0.008%
9	6.898	547	558	569	rVB6	1466	5583	1.24%	0.201%
10	7.081	588	593	596	rBV2	210	290	0.06%	0.010%
11	7.243	620	624	632	rVB3	199	457	0.10%	0.016%
12	7.672	691	706	740	rVB3	21246	89129	19.75%	3.214%
13	7.991	765	767	771	rVB3	177	228	0.05%	0.008%
14	8.111	788	790	799	rBV3	122	201	0.04%	0.007%
15	8.289	814	824	836	rVB4	4500	12483	2.77%	0.450%
16	8.535	869	871	880	rBV3	178	308	0.07%	0.011%
17	8.797	920	921	934	rVB3	186	406	0.09%	0.015%
18	8.948	944	950	952	rBV2	126	211	0.05%	0.008%
19	9.178	988	994	1002	rVB4	451	1064	0.24%	0.038%
20	9.299	1015	1017	1023	rVB3	199	325	0.07%	0.012%
21	9.728	1092	1099	1105	rBV3	430	940	0.21%	0.034%
22	9.843	1107	1121	1130	rVV	135652	323638	71.72%	11.669%
23	9.932	1130	1138	1169	rVB	66277	159707	35.39%	5.758%
24	10.251	1194	1199	1201	rBV2	189	285	0.06%	0.010%
25	10.350	1206	1218	1244	rVV	58088	138844	30.77%	5.006%
26	10.554	1255	1257	1263	rVB2	186	340	0.08%	0.012%
27	10.758	1283	1296	1324	rBV	188239	404278	89.59%	14.577%
28	11.417	1421	1422	1427	rBV	155	219	0.05%	0.008%
29	11.658	1466	1468	1473	rBV2	137	253	0.06%	0.009%
30	11.689	1473	1474	1483	rVB2	161	309	0.07%	0.011%
31	11.757	1483	1487	1491	rBV2	242	308	0.07%	0.011%
32	11.809	1491	1497	1499	rVB2	167	270	0.06%	0.010%
33	11.945	1519	1523	1525	rBV2	153	226	0.05%	0.008%
34	12.118	1551	1556	1559	rBV	223	353	0.08%	0.013%

MYS5252.M Mon Sep 10 10:40:19 2012 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	12.175	1566	1567	1574	rVB2	227	398	0.09%	0.014%
36	12.270	1578	1585	1592	rBV3	226	748	0.17%	0.027%
37	12.353	1592	1601	1622	rBV	238232	451231	100.00%	16.270%
38	12.494	1624	1628	1641	rVB4	2139	5506	1.22%	0.199%
39	12.756	1671	1678	1682	rVB3	175	298	0.07%	0.011%
40	13.284	1775	1779	1782	rVB	150	246	0.05%	0.009%
41	13.337	1782	1789	1793	rBV2	191	461	0.10%	0.017%
42	13.436	1805	1808	1810	rVB2	273	238	0.05%	0.009%
43	13.499	1810	1820	1825	rBV2	220	684	0.15%	0.025%
44	13.535	1825	1827	1838	rVB2	275	558	0.12%	0.020%
45	13.676	1850	1854	1859	rBV2	195	291	0.06%	0.010%
46	13.844	1876	1886	1915	rBV	251924	438283	97.13%	15.803%
47	14.027	1915	1921	1927	rVB3	430	964	0.21%	0.035%
48	14.241	1961	1962	1971	rVB2	172	410	0.09%	0.015%
49	14.315	1971	1976	1983	rBV2	191	555	0.12%	0.020%
50	14.383	1987	1989	1995	rVB2	160	264	0.06%	0.010%
51	14.430	1995	1998	2006	rBV2	222	381	0.08%	0.014%
52	14.576	2024	2026	2031	rVB2	146	220	0.05%	0.008%
53	14.628	2031	2036	2040	rBV2	181	306	0.07%	0.011%
54	14.738	2049	2057	2064	rBV4	988	2072	0.46%	0.075%
55	14.864	2080	2081	2086	rVB2	216	231	0.05%	0.008%
56	14.911	2086	2090	2094	rBV	113	206	0.05%	0.007%
57	14.979	2094	2103	2127	rBV	172142	286736	63.55%	10.339%
58	15.308	2161	2166	2172	rVV2	262	317	0.07%	0.011%
59	15.376	2176	2179	2184	rVB2	182	240	0.05%	0.009%
60	15.439	2184	2191	2194	rBV3	200	412	0.09%	0.015%
61	15.695	2234	2240	2243	rBV	336	365	0.08%	0.013%
62	15.784	2248	2257	2259	rBV2	299	562	0.12%	0.020%
63	15.810	2259	2262	2264	rVB	277	211	0.05%	0.008%
64	15.873	2269	2274	2276	rVV2	200	268	0.06%	0.010%
65	15.899	2276	2279	2282	rVB	239	210	0.05%	0.008%
66	15.967	2289	2292	2295	rVB3	231	271	0.06%	0.010%
67	15.988	2295	2296	2302	rBV	206	286	0.06%	0.010%
68	16.025	2302	2303	2308	rBV	267	322	0.07%	0.012%
69	16.124	2312	2322	2345	rVV	242191	408054	90.43%	14.713%
70	16.339	2361	2363	2366	rVB	235	212	0.05%	0.008%
71	16.386	2368	2372	2377	rVV2	338	480	0.11%	0.017%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	16.532	2390	2400	2411	rBV4	436	1473	0.33%	0.053%
73	16.684	2427	2429	2433	rBV	162	239	0.05%	0.009%
74	16.815	2446	2454	2456	rBV	196	329	0.07%	0.012%
75	16.867	2462	2464	2469	rBV3	174	228	0.05%	0.008%
76	16.945	2473	2479	2481	rBV3	189	387	0.09%	0.014%
77	16.987	2481	2487	2490	rBV2	170	247	0.05%	0.009%
78	17.040	2495	2497	2501	rVB2	219	219	0.05%	0.008%
79	17.118	2508	2512	2515	rVB3	213	286	0.06%	0.010%
80	17.223	2523	2532	2536	rBV3	176	527	0.12%	0.019%
81	17.416	2565	2569	2578	rBV3	267	532	0.12%	0.019%
82	17.489	2581	2583	2586	rBV	272	292	0.06%	0.011%
83	17.589	2600	2602	2606	rBV2	186	267	0.06%	0.010%
84	17.704	2620	2624	2629	rBV	301	660	0.15%	0.024%
85	17.819	2643	2646	2647	rBV2	368	222	0.05%	0.008%
86	17.934	2660	2668	2670	rBV3	299	589	0.13%	0.021%
87	18.002	2678	2681	2683	rVB2	398	344	0.08%	0.012%
88	18.059	2689	2692	2696	rVB3	404	414	0.09%	0.015%
89	18.133	2705	2706	2710	rVB2	244	225	0.05%	0.008%
90	18.201	2718	2719	2726	rVB4	342	399	0.09%	0.014%
91	18.242	2726	2727	2734	rBV3	340	430	0.10%	0.016%
92	18.331	2742	2744	2749	rVB3	277	319	0.07%	0.012%
93	18.415	2755	2760	2762	rBV4	536	791	0.18%	0.029%
94	18.551	2781	2786	2797	rBV5	400	1587	0.35%	0.057%
95	18.666	2807	2808	2812	rBV2	335	324	0.07%	0.012%
96	18.708	2815	2816	2824	rVB4	549	796	0.18%	0.029%
97	18.996	2859	2871	2872	rVB5	516	1336	0.30%	0.048%
98	19.064	2881	2884	2889	rBV4	370	301	0.07%	0.011%
99	19.189	2906	2908	2909	rBV2	461	279	0.06%	0.010%
100	19.377	2936	2944	2955	rBV8	787	3700	0.82%	0.133%

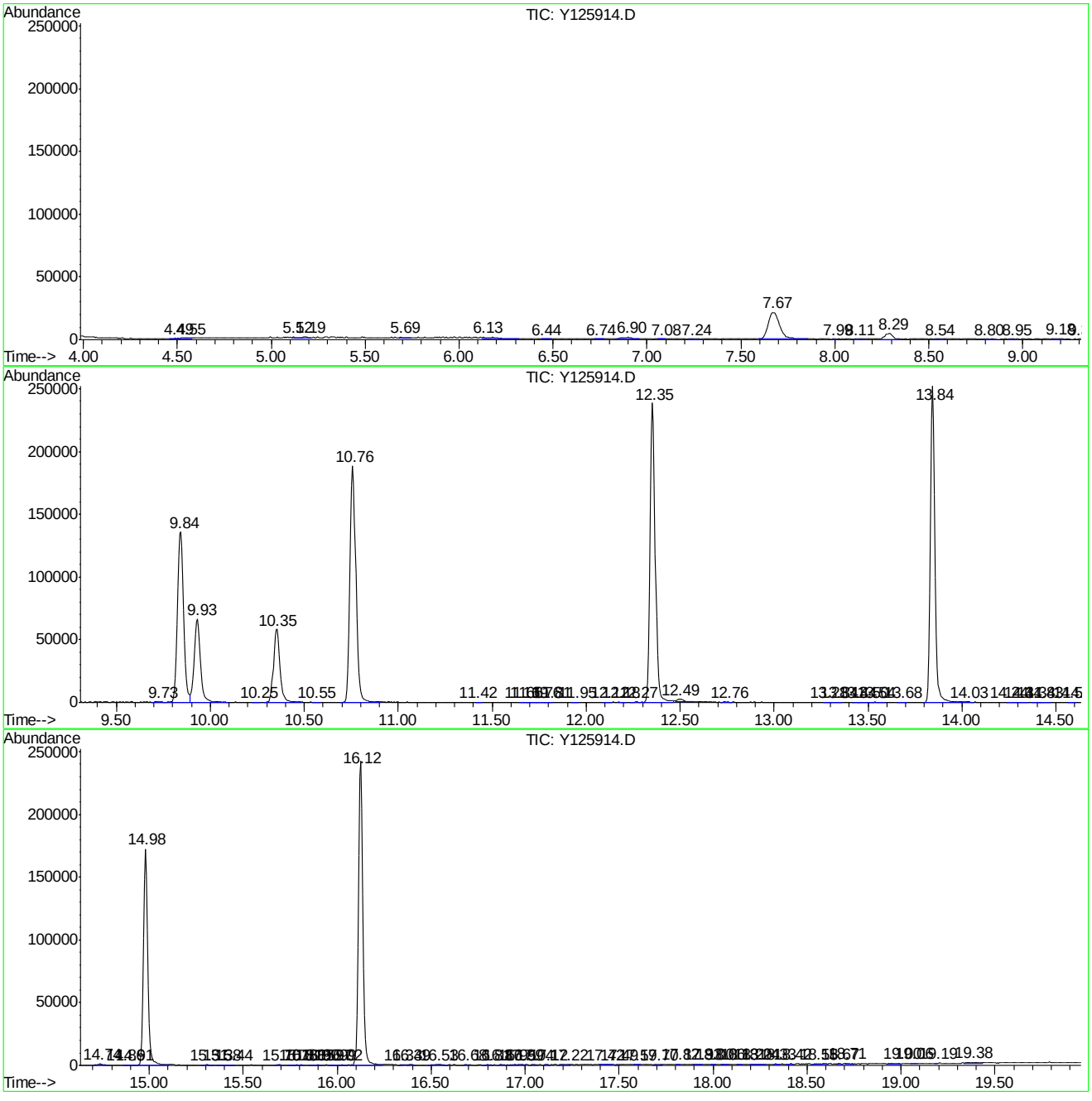
Sum of corrected areas: 2773457

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On : 7 Sep 2012 11:05 pm
Operator : ROBERTS
Sample : MB
Misc : MS35058,VY5408,5.0,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: lscint.p



ACCUTEST LABORATORIES JB15113R

Tentatively Identified Compound (LSC) summary

```
Data Path : C:\MSDChem\1\DATA\
Data File : Y125914.D
Acq On    :  7 Sep 2012  11:05 pm
Operator  : ROBERTS
Sample    : MB
Misc      : MS35058,VY5408,5.0,,,,1
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MYS5252.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: lscint.p

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

New Jersey
ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MB1	2P15820.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	140	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	140	5.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	57	10	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
100-52-7	Benzaldehyde	ND	140	6.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	57	8.9	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
105-60-2	Caprolactam	ND	57	9.0	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	57	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MB1	2P15820.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	57	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	57	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	140	7.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	57	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	21-116%

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MB1	2P15820.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	62%	19-117%
118-79-6	2,4,6-Tribromophenol	76%	24-136%
4165-60-0	Nitrobenzene-d5	66%	21-122%
321-60-8	2-Fluorobiphenyl	66%	30-117%
1718-51-0	Terphenyl-d14	115%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.49	140	ug/kg	J
	system artifact	2.01	170	ug/kg	J
	system artifact/aldol-condensation	2.33	260	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-BS1	2P15821.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	871	61	51-111
59-50-7	4-Chloro-3-methyl phenol	1430	1170	82	54-121
120-83-2	2,4-Dichlorophenol	1430	979	69	51-120
105-67-9	2,4-Dimethylphenol	1430	1140	80	55-131
51-28-5	2,4-Dinitrophenol	2860	3590	126	19-144
534-52-1	4,6-Dinitro-o-cresol	1430	1560	109	33-126
95-48-7	2-Methylphenol	1430	944	66	49-115
	3&4-Methylphenol	1430	978	68	49-115
88-75-5	2-Nitrophenol	1430	905	63	47-122
100-02-7	4-Nitrophenol	1430	1210	85	10-137
87-86-5	Pentachlorophenol	1430	1030	72	17-126
108-95-2	Phenol	1430	950	67	47-111
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1080	76	43-116
95-95-4	2,4,5-Trichlorophenol	1430	1120	78	56-120
88-06-2	2,4,6-Trichlorophenol	1430	1110	78	55-118
83-32-9	Acenaphthene	1430	1160	81	55-114
208-96-8	Acenaphthylene	1430	1030	72	50-103
98-86-2	Acetophenone	1430	974	68	53-121
120-12-7	Anthracene	1430	1390	97	59-121
1912-24-9	Atrazine	1430	1820	127	58-137
56-55-3	Benzo(a)anthracene	1430	1360	95	54-119
50-32-8	Benzo(a)pyrene	1430	1470	103	59-122
205-99-2	Benzo(b)fluoranthene	1430	1540	108	45-133
191-24-2	Benzo(g,h,i)perylene	1430	1550	109	57-122
207-08-9	Benzo(k)fluoranthene	1430	1450	102	49-131
101-55-3	4-Bromophenyl phenyl ether	1430	1320	92	58-122
85-68-7	Butyl benzyl phthalate	1430	1330	93	54-132
92-52-4	1,1'-Biphenyl	1430	1170	82	54-116
100-52-7	Benzaldehyde	1430	792	55	32-125
91-58-7	2-Chloronaphthalene	1430	1030	72	53-113
106-47-8	4-Chloroaniline	1430	909	64	26-102
86-74-8	Carbazole	1430	1370	96	60-121
105-60-2	Caprolactam	1430	1320	92	32-136
218-01-9	Chrysene	1430	1370	96	55-120
111-91-1	bis(2-Chloroethoxy)methane	1430	983	69	49-120
111-44-4	bis(2-Chloroethyl)ether	1430	838	59	42-113

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-BS1	2P15821.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	762	53	36-118
7005-72-3	4-Chlorophenyl phenyl ether	1430	1180	83	53-117
121-14-2	2,4-Dinitrotoluene	1430	1370	96	57-122
606-20-2	2,6-Dinitrotoluene	1430	1310	92	51-133
91-94-1	3,3'-Dichlorobenzidine	1430	1410	99	27-121
53-70-3	Dibenzo(a,h)anthracene	1430	1570	110	58-125
132-64-9	Dibenzofuran	1430	1100	77	57-111
84-74-2	Di-n-butyl phthalate	1430	1440	101	59-125
117-84-0	Di-n-octyl phthalate	1430	1460	102	53-136
84-66-2	Diethyl phthalate	1430	1310	92	56-118
131-11-3	Dimethyl phthalate	1430	1260	88	57-116
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1380	97	54-133
206-44-0	Fluoranthene	1430	1420	99	57-119
86-73-7	Fluorene	1430	1260	88	57-117
118-74-1	Hexachlorobenzene	1430	1380	97	55-122
87-68-3	Hexachlorobutadiene	1430	800	56	43-126
77-47-4	Hexachlorocyclopentadiene	2860	1740	61	24-167
67-72-1	Hexachloroethane	1430	721	50	44-113
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1580	111	57-127
78-59-1	Isophorone	1430	1050	74	42-124
91-57-6	2-Methylnaphthalene	1430	918	64	46-114
88-74-4	2-Nitroaniline	1430	1470	103	47-132
99-09-2	3-Nitroaniline	1430	1230	86	34-106
100-01-6	4-Nitroaniline	1430	1320	92	46-121
91-20-3	Naphthalene	1430	863	60	49-111
98-95-3	Nitrobenzene	1430	914	64	48-114
621-64-7	N-Nitroso-di-n-propylamine	1430	998	70	44-119
86-30-6	N-Nitrosodiphenylamine	1430	1330	93	58-117
85-01-8	Phenanthrene	1430	1410	99	58-118
129-00-0	Pyrene	1430	1350	95	54-122
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	912	64	44-126

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	57%	21-116%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-BS1	2P15821.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	66%	19-117%
118-79-6	2,4,6-Tribromophenol	96%	24-136%
4165-60-0	Nitrobenzene-d5	67%	21-122%
321-60-8	2-Fluorobiphenyl	72%	30-117%
1718-51-0	Terphenyl-d14	114%	31-129%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MS	2P15830.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
OP59504-MSD	2P15831.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
JB15130-8	2P15829.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	JB15130-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1990	1200	60	1200	61	0	30-111/32
59-50-7	4-Chloro-3-methyl phenol	ND		1990	1640	82	1620	83	1	33-124/31
120-83-2	2,4-Dichlorophenol	ND		1990	1280	64	1200	61	6	31-121/33
105-67-9	2,4-Dimethylphenol	ND		1990	1500	75	1460	74	3	30-136/32
51-28-5	2,4-Dinitrophenol	ND		3980	1140	29	1460	37	25	10-131/48
534-52-1	4,6-Dinitro-o-cresol	ND		1990	1050	53	965	49	8	10-123/48
95-48-7	2-Methylphenol	ND		1990	1250	63	1250	64	0	28-119/30
	3&4-Methylphenol	ND		1990	1270	64	1280	65	1	27-120/32
88-75-5	2-Nitrophenol	ND		1990	1180	59	1120	57	5	24-118/35
100-02-7	4-Nitrophenol	ND		1990	1780	89	1760	90	1	10-137/43
87-86-5	Pentachlorophenol	ND		1990	1480	74	1480	75	0	11-121/35
108-95-2	Phenol	ND		1990	1270	64	1280	65	1	27-114/32
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1990	1540	77	1570	80	2	26-119/34
95-95-4	2,4,5-Trichlorophenol	ND		1990	1570	79	1630	83	4	35-124/33
88-06-2	2,4,6-Trichlorophenol	ND		1990	1430	72	1490	76	4	34-122/31
83-32-9	Acenaphthene	ND		1990	1350	68	1340	68	1	30-122/31
208-96-8	Acenaphthylene	ND		1990	1180	59	1170	60	1	32-107/29
98-86-2	Acetophenone	ND		1990	1270	64	1280	65	1	28-126/33
120-12-7	Anthracene	ND		1990	1760	88	1710	87	3	33-130/30
1912-24-9	Atrazine	ND		1990	2430	122	2520	128	4	32-140/32
56-55-3	Benzo(a)anthracene	ND		1990	1760	88	1710	87	3	29-127/33
50-32-8	Benzo(a)pyrene	ND		1990	1800	90	1740	89	3	28-134/34
205-99-2	Benzo(b)fluoranthene	ND		1990	2060	104	1950	99	5	19-143/38
191-24-2	Benzo(g,h,i)perylene	ND		1990	1970	99	1880	96	5	27-135/34
207-08-9	Benzo(k)fluoranthene	ND		1990	1630	82	1630	83	0	20-138/40
101-55-3	4-Bromophenyl phenyl ether	ND		1990	1660	83	1500	76	10	35-127/29
85-68-7	Butyl benzyl phthalate	ND		1990	1730	87	1670	85	4	31-136/32
92-52-4	1,1'-Biphenyl	ND		1990	1370	69	1390	71	1	33-121/28
100-52-7	Benzaldehyde	ND		1990	1030	52	1080	55	5	18-128/33
91-58-7	2-Chloronaphthalene	ND		1990	1190	60	1210	62	2	34-113/29
106-47-8	4-Chloroaniline	ND		1990	1200	60	1160	59	3	10-109/35
86-74-8	Carbazole	ND		1990	1740	87	1680	86	4	37-126/31
105-60-2	Caprolactam	ND		1990	1350	68	1280	65	5	12-137/37
218-01-9	Chrysene	ND		1990	1740	87	1700	87	2	29-129/32
111-91-1	bis(2-Chloroethoxy)methane	ND		1990	1260	63	1210	62	4	28-121/32
111-44-4	bis(2-Chloroethyl)ether	ND		1990	1060	53	1080	55	2	19-116/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MS	2P15830.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
OP59504-MSD	2P15831.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
JB15130-8	2P15829.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Compound	JB15130-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1990	918	46	934	48	2	22-112/31
7005-72-3	4-Chlorophenyl phenyl ether	ND		1990	1430	72	1450	74	1	36-118/28
121-14-2	2,4-Dinitrotoluene	ND		1990	1710	86	1670	85	2	28-128/34
606-20-2	2,6-Dinitrotoluene	ND		1990	1580	79	1590	81	1	31-133/31
91-94-1	3,3'-Dichlorobenzidine	ND		1990	1820	91	1780	91	2	10-124/39
53-70-3	Dibenzo(a,h)anthracene	ND		1990	2000	101	1880	96	6	32-135/34
132-64-9	Dibenzofuran	ND		1990	1320	66	1330	68	1	34-118/30
84-74-2	Di-n-butyl phthalate	ND		1990	1840	92	1740	89	6	37-128/29
117-84-0	Di-n-octyl phthalate	ND		1990	1750	88	1730	88	1	29-139/33
84-66-2	Diethyl phthalate	ND		1990	1630	82	1620	83	1	36-121/30
131-11-3	Dimethyl phthalate	77.0	J	1990	1550	74	1550	75	0	37-121/29
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1990	1850	93	1820	93	2	26-145/34
206-44-0	Fluoranthene	ND		1990	1760	88	1690	86	4	25-132/33
86-73-7	Fluorene	ND		1990	1540	77	1540	79	0	32-125/32
118-74-1	Hexachlorobenzene	ND		1990	1680	84	1660	85	1	34-122/29
87-68-3	Hexachlorobutadiene	ND		1990	945	47	929	47	2	26-119/32
77-47-4	Hexachlorocyclopentadiene	ND		3980	1020	26	1130	29	10	10-146/42
67-72-1	Hexachloroethane	ND		1990	723	36	748	38	3	22-104/32
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1990	1960	99	1890	96	4	29-138/35
78-59-1	Isophorone	ND		1990	1320	66	1260	64	5	26-121/31
91-57-6	2-Methylnaphthalene	ND		1990	1110	56	1050	54	6	23-121/32
88-74-4	2-Nitroaniline	ND		1990	1840	92	1870	95	2	28-135/32
99-09-2	3-Nitroaniline	ND		1990	1620	81	1590	81	2	16-115/36
100-01-6	4-Nitroaniline	ND		1990	1720	86	1660	85	4	17-121/36
91-20-3	Naphthalene	ND		1990	1070	54	1020	52	5	25-117/32
98-95-3	Nitrobenzene	ND		1990	1200	60	1140	58	5	27-115/32
621-64-7	N-Nitroso-di-n-propylamine	ND		1990	1250	63	1220	62	2	26-119/32
86-30-6	N-Nitrosodiphenylamine	ND		1990	1710	86	1530	78	11	33-132/30
85-01-8	Phenanthrene	ND		1990	1750	88	1690	86	3	28-132/34
129-00-0	Pyrene	ND		1990	1620	81	1590	81	2	27-132/33
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1990	1020	51	1020	52	0	28-120/29

CAS No.	Surrogate Recoveries	MS	MSD	JB15130-8	Limits
367-12-4	2-Fluorophenol	58%	58%		21-116%

* = Outside of Control Limits.

8.3.1

8

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59504-MS	2P15830.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
OP59504-MSD	2P15831.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718
JB15130-8	2P15829.D	1	09/04/12	ALS	09/01/12	OP59504	E2P718

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB15113-4R

CAS No.	Surrogate Recoveries	MS	MSD	JB15130-8	Limits
4165-62-2	Phenol-d5	64%	65%		19-117%
118-79-6	2,4,6-Tribromophenol	95%	86%		24-136%
4165-60-0	Nitrobenzene-d5	63%	62%	59%	21-122%
321-60-8	2-Fluorobiphenyl	62%	61%	64%	30-117%
1718-51-0	Terphenyl-d14	103%	101%	97%	31-129%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P689-DFTPP
Lab File ID: 2P15076.D
Instrument ID: GCMS2P
Injection Date: 08/01/12
Injection Time: 16:18

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	9620	33.3		Pass
68	Less than 2.0% of mass 69	101	0.35	(0.85) [a]	Pass
69	Mass 69 relative abundance	11837	41.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13445	46.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	28894	100.0		Pass
199	5.0 - 9.0% of mass 198	1938	6.71		Pass
275	10.0 - 30.0% of mass 198	5687	19.7		Pass
365	1.0 - 100.0% of mass 198	558	1.93		Pass
441	Present, but less than mass 443	3078	10.7	(79.2) [b]	Pass
442	40.0 - 100.0% of mass 198	19343	66.9		Pass
443	17.0 - 23.0% of mass 442	3885	13.4	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P689-IC689	2P15077.D	08/01/12	16:32	00:14	Initial cal 100
E2P689-IC689	2P15078.D	08/01/12	16:57	00:39	Initial cal 80
E2P689-ICC689	2P15079.D	08/01/12	17:21	01:03	Initial cal 50
E2P689-IC689	2P15080.D	08/01/12	17:46	01:28	Initial cal 25
E2P689-IC689	2P15081.D	08/01/12	18:11	01:53	Initial cal 10
E2P689-IC689	2P15082.D	08/01/12	18:36	02:18	Initial cal 5
E2P689-IC689	2P15083.D	08/01/12	19:00	02:42	Initial cal 2
E2P689-IC689	2P15084.D	08/01/12	19:25	03:07	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-DFTPP
Lab File ID: 2P15110.D
Instrument ID: GCMS2P
Injection Date: 08/02/12
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10793	32.3		Pass
68	Less than 2.0% of mass 69	213	0.64	(1.48) [a]	Pass
69	Mass 69 relative abundance	14350	42.9		Pass
70	Less than 2.0% of mass 69	75	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	16347	48.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	33445	100.0		Pass
199	5.0 - 9.0% of mass 198	2293	6.86		Pass
275	10.0 - 30.0% of mass 198	7174	21.5		Pass
365	1.0 - 100.0% of mass 198	825	2.47		Pass
441	Present, but less than mass 443	3807	11.4	(85.0) [b]	Pass
442	40.0 - 100.0% of mass 198	22901	68.5		Pass
443	17.0 - 23.0% of mass 442	4478	13.4	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P691-IC691	2P15111.D	08/02/12	09:28	00:15	Initial cal 100
E2P691-IC691	2P15112.D	08/02/12	09:51	00:38	Initial cal 1
E2P691-IC691	2P15113.D	08/02/12	10:20	01:07	Initial cal 80
E2P691-IC691	2P15114.D	08/02/12	10:43	01:30	Initial cal 2
E2P691-ICC691	2P15115.D	08/02/12	11:06	01:53	Initial cal 50
E2P691-IC691	2P15116.D	08/02/12	11:30	02:17	Initial cal 5
E2P691-IC691	2P15117.D	08/02/12	11:53	02:40	Initial cal 25
E2P691-IC691	2P15118.D	08/02/12	12:16	03:03	Initial cal 10
E2P691-ICV691	2P15119.D	08/02/12	13:02	03:49	Initial cal verification 50
E2P691-ICV689	2P15119A.D	08/02/12	13:02	03:49	Initial cal verification 50
E2P691-ICV689	2P15120A.D	08/02/12	13:25	04:12	Initial cal verification 50
E2P691-ICV691	2P15120.D	08/02/12	13:25	04:12	Initial cal verification 50
E2P691-ICV691	2P15121.D	08/02/12	13:48	04:35	Initial cal verification 50
E2P691-ICV691	2P15122.D	08/02/12	14:11	04:58	Initial cal verification 50
E2P691-ICV691	2P15123.D	08/02/12	15:40	06:27	Initial cal verification 50
E2P691-ICV691	2P15124.D	08/02/12	16:03	06:50	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P718-DFTPP
Lab File ID: 2P15817.D
Instrument ID: GCMS2P
Injection Date: 09/04/12
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36612	35.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48634	47.6		Pass
70	Less than 2.0% of mass 69	191	0.19	(0.39) [a]	Pass
127	40.0 - 60.0% of mass 198	50629	49.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	102115	100.0		Pass
199	5.0 - 9.0% of mass 198	6803	6.66		Pass
275	10.0 - 30.0% of mass 198	25747	25.2		Pass
365	1.0 - 100.0% of mass 198	3215	3.15		Pass
441	Present, but less than mass 443	15470	15.1	(82.7) [b]	Pass
442	40.0 - 100.0% of mass 198	97992	96.0		Pass
443	17.0 - 23.0% of mass 442	18699	18.3	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P718-CC691	2P15818.D	09/04/12	09:07	00:10	Continuing cal 25
E2P718-CC689	2P15819.D	09/04/12	09:31	00:34	Continuing cal 25
OP59504-MB1	2P15820.D	09/04/12	09:55	00:58	Method Blank
OP59504-BS1	2P15821.D	09/04/12	10:19	01:22	Blank Spike
ZZZZZZ	2P15822.D	09/04/12	10:43	01:46	(unrelated sample)
ZZZZZZ	2P15823.D	09/04/12	11:08	02:11	(unrelated sample)
ZZZZZZ	2P15824.D	09/04/12	11:32	02:35	(unrelated sample)
ZZZZZZ	2P15825.D	09/04/12	11:56	02:59	(unrelated sample)
OP59517-MB1	2P15834.D	09/04/12	12:21	03:24	Method Blank
ZZZZZZ	2P15836.D	09/04/12	13:10	04:13	(unrelated sample)
ZZZZZZ	2P15837.D	09/04/12	13:35	04:38	(unrelated sample)
ZZZZZZ	2P15838.D	09/04/12	13:59	05:02	(unrelated sample)
ZZZZZZ	2P15826.D	09/04/12	14:24	05:27	(unrelated sample)
ZZZZZZ	2P15827.D	09/04/12	14:49	05:52	(unrelated sample)
ZZZZZZ	2P15828.D	09/04/12	15:13	06:16	(unrelated sample)
JB15130-8	2P15829.D	09/04/12	15:38	06:41	(used for QC only; not part of job JB15113R)
OP59504-MS	2P15830.D	09/04/12	16:02	07:05	Matrix Spike
OP59504-MSD	2P15831.D	09/04/12	16:27	07:30	Matrix Spike Duplicate
ZZZZZZ	2P15832.D	09/04/12	16:52	07:55	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P718-DFTPP
Lab File ID: 2P15817.D
Instrument ID: GCMS2P
Injection Date: 09/04/12
Injection Time: 08:57

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P15833.D	09/04/12	17:17	08:20	(unrelated sample)
ZZZZZZ	2P15839.D	09/04/12	17:41	08:44	(unrelated sample)
ZZZZZZ	2P15840.D	09/04/12	18:06	09:09	(unrelated sample)
ZZZZZZ	2P15841.D	09/04/12	18:31	09:34	(unrelated sample)
ZZZZZZ	2P15842.D	09/04/12	18:56	09:59	(unrelated sample)
ZZZZZZ	2P15843.D	09/04/12	19:20	10:23	(unrelated sample)
ZZZZZZ	2P15845.D	09/04/12	20:10	11:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P721-DFTPP
Lab File ID: 2P15904.D
Instrument ID: GCMS2P
Injection Date: 09/07/12
Injection Time: 08:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	32568	39.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	41407	50.2		Pass
70	Less than 2.0% of mass 69	30	0.04	(0.07) [a]	Pass
127	40.0 - 60.0% of mass 198	42813	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	82541	100.0		Pass
199	5.0 - 9.0% of mass 198	5826	7.06		Pass
275	10.0 - 30.0% of mass 198	20112	24.4		Pass
365	1.0 - 100.0% of mass 198	2824	3.42		Pass
441	Present, but less than mass 443	11341	13.7	(83.2) [b]	Pass
442	40.0 - 100.0% of mass 198	71197	86.3		Pass
443	17.0 - 23.0% of mass 442	13633	16.5	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P721-CC691	2P15905.D	09/07/12	09:16	00:39	Continuing cal 50
E2P721-CC689	2P15906.D	09/07/12	09:40	01:03	Continuing cal 25
OP59581-MB1	2P15907.D	09/07/12	10:03	01:26	Method Blank
OP59581-BS1	2P15908.D	09/07/12	10:27	01:50	Blank Spike
ZZZZZZ	2P15909.D	09/07/12	10:51	02:14	(unrelated sample)
ZZZZZZ	2P15910.D	09/07/12	11:14	02:37	(unrelated sample)
ZZZZZZ	2P15911.D	09/07/12	11:38	03:01	(unrelated sample)
ZZZZZZ	2P15912.D	09/07/12	12:02	03:25	(unrelated sample)
JB15378-1	2P15913.D	09/07/12	12:26	03:49	(used for QC only; not part of job JB15113R)
ZZZZZZ	2P15914.D	09/07/12	12:50	04:13	(unrelated sample)
ZZZZZZ	2P15915.D	09/07/12	13:14	04:37	(unrelated sample)
ZZZZZZ	2P15916.D	09/07/12	13:38	05:01	(unrelated sample)
ZZZZZZ	2P15917.D	09/07/12	14:02	05:25	(unrelated sample)
ZZZZZZ	2P15923.D	09/07/12	14:26	05:49	(unrelated sample)
ZZZZZZ	2P15918.D	09/07/12	14:51	06:14	(unrelated sample)
OP59581-MS	2P15919.D	09/07/12	15:15	06:38	Matrix Spike
OP59581-MSD	2P15920.D	09/07/12	15:40	07:03	Matrix Spike Duplicate
ZZZZZZ	2P15921.D	09/07/12	16:04	07:27	(unrelated sample)
ZZZZZZ	2P15922.D	09/07/12	16:28	07:51	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P721-DFTPP
Lab File ID: 2P15904.D
Instrument ID: GCMS2P
Injection Date: 09/07/12
Injection Time: 08:37

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P15924.D	09/07/12	16:52	08:15	(unrelated sample)
ZZZZZZ	2P15925.D	09/07/12	17:17	08:40	(unrelated sample)
ZZZZZZ	2P15926.D	09/07/12	17:41	09:04	(unrelated sample)
ZZZZZZ	2P15927.D	09/07/12	18:06	09:29	(unrelated sample)
JB15113-4R	2P15929.D	09/07/12	18:55	10:18	046-PE 7B-1.5'-2'
ZZZZZZ	2P15930.D	09/07/12	19:19	10:42	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	E2P718-CC691	**Injection Date:**	09/04/12
Lab File ID:	2P15818.D	**Injection Time:**	09:07
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	187623	3.91	697781	5.63	386859	8.33	652459	10.65	666552	14.05	604655	15.43
Upper Limit [a]	375246	4.41	1395562	6.13	773718	8.83	1304918	11.15	1333104	14.55	1209310	15.93
Lower Limit [b]	93812	3.41	348891	5.13	193430	7.83	326230	10.15	333276	13.55	302328	14.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59504-MB1	211037	3.91	762476	5.63	390117	8.33	637760	10.64	647661	14.05	588838	15.43
OP59504-BS1	187995	3.91	673677	5.63	359521	8.33	581018	10.65	589279	14.05	510014	15.43
ZZZZZZ	204632	3.91	766890	5.63	418894	8.33	662600	10.64	655882	14.05	589493	15.43
ZZZZZZ	172890	3.91	624443	5.63	345439	8.33	571952	10.64	560132	14.05	513802	15.43
ZZZZZZ	187661	3.91	693123	5.63	382073	8.33	611618	10.64	619971	14.05	604104	15.43
ZZZZZZ	176608	3.91	643441	5.63	346860	8.33	552624	10.65	541090	14.05	521567	15.43
OP59517-MB1	166337	3.91	608266	5.63	342902	8.33	554220	10.64	574425	14.05	541569	15.43
ZZZZZZ	192707	3.91	700357	5.63	382121	8.33	607544	10.64	621207	14.05	576876	15.43
ZZZZZZ	218100	3.91	798750	5.63	425725	8.33	658608	10.64	689435	14.05	675001	15.43
ZZZZZZ	210011	3.91	791962	5.63	428843	8.33	694236	10.64	676868	14.05	645337	15.43
ZZZZZZ	215836	3.91	778920	5.63	426257	8.33	700908	10.65	648682	14.05	634539	15.43
ZZZZZZ	167703	3.91	613459	5.63	336397	8.33	561217	10.64	543533	14.05	492443	15.43
ZZZZZZ	171282	3.91	610733	5.63	368335	8.35	621458	10.66	626026	14.05	599142	15.43
JB15130-8	197499	3.91	734728	5.63	400147	8.33	640177	10.65	642746	14.05	612184	15.43
OP59504-MS	226994	3.91	799400	5.63	445673	8.34	724731	10.65	732752	14.06	693063	15.43
OP59504-MSD	211566	3.91	780677	5.63	417175	8.34	734757	10.65	738341	14.06	703461	15.43
ZZZZZZ	162304	3.91	596767	5.63	331976	8.33	546151	10.65	539722	14.05	532223	15.43
ZZZZZZ	192486	3.91	706580	5.63	373237	8.33	612019	10.65	625725	14.06	609529	15.43
ZZZZZZ	203408	3.91	729964	5.63	401552	8.34	664324	10.65	650861	14.06	635031	15.43
ZZZZZZ	191433	3.91	676876	5.63	373545	8.34	615990	10.65	566359	14.05	540155	15.43
ZZZZZZ	162055	3.91	603068	5.63	329793	8.34	566690	10.65	545540	14.05	479332	15.43
ZZZZZZ	168884	3.91	632249	5.63	350845	8.33	597318	10.65	596425	14.05	526956	15.43
ZZZZZZ	176214	3.91	654270	5.63	369395	8.33	608124	10.65	640473	14.05	561707	15.43
ZZZZZZ	185548	3.91	673904	5.63	383857	8.33	622130	10.65	609284	14.05	554205	15.43

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	E2P721-CC691	**Injection Date:**	09/07/12
Lab File ID:	2P15905.D	**Injection Time:**	09:16
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	268432	3.89	956426	5.61	521335	8.31	868695	10.62	947652	14.04	804118	15.41
Upper Limit [a]	536864	4.39	1912852	6.11	1042670	8.81	1737390	11.12	1895304	14.54	1608236	15.91
Lower Limit [b]	134216	3.39	478213	5.11	260668	7.81	434348	10.12	473826	13.54	402059	14.91

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59581-MB1	196712	3.88	747820	5.61	392327	8.31	663327	10.62	698179	14.03	622883	15.41
OP59581-BS1	185868	3.89	651112	5.61	365705	8.31	606695	10.62	641484	14.03	542398	15.41
ZZZZZZ	247354	3.88	890486	5.61	481182	8.31	823144	10.62	726094	14.03	629397	15.41
ZZZZZZ	222920	3.88	826236	5.61	433447	8.31	718411	10.62	724103	14.03	680297	15.41
ZZZZZZ	229227	3.88	792489	5.61	421468	8.31	697395	10.62	745867	14.04	696383	15.41
ZZZZZZ	262718	3.88	981000	5.61	506516	8.31	804749	10.62	731646	14.03	706877	15.41
JB15378-1	204730	3.89	748222	5.61	402831	8.31	687521	10.62	737396	14.04	715109	15.41
ZZZZZZ	242247	3.88	879520	5.61	480361	8.31	787008	10.62	832189	14.04	774783	15.41
ZZZZZZ	217022	3.89	830802	5.61	435238	8.31	695746	10.62	731462	14.04	735805	15.41
ZZZZZZ	233530	3.89	810085	5.61	433536	8.32	726568	10.63	854298	14.06	910284	15.44
ZZZZZZ	267836	3.89	940425	5.61	495177	8.32	788020	10.63	801882	14.04	776992	15.42
ZZZZZZ	208701	3.89	781644	5.61	428087	8.31	697227	10.62	707947	14.04	670227	15.42
ZZZZZZ	207803	3.89	753564	5.61	390461	8.31	636701	10.62	632090	14.04	627789	15.41
OP59581-MS	233209	3.89	858387	5.61	445856	8.32	713631	10.63	729784	14.05	669999	15.42
OP59581-MSD	199342	3.89	694479	5.61	377452	8.32	628616	10.63	685387	14.04	661837	15.42
ZZZZZZ	247312	3.89	891677	5.61	460051	8.31	737622	10.62	657437	14.03	576098	15.41
ZZZZZZ	246199	3.89	875046	5.61	478390	8.31	754878	10.62	726567	14.04	658668	15.41
ZZZZZZ	249755	3.89	944349	5.61	505290	8.31	811343	10.62	891951	14.04	873098	15.42
ZZZZZZ	220767	3.89	789739	5.61	445409	8.32	714386	10.62	753901	14.04	740562	15.42
ZZZZZZ	254925	3.89	930986	5.61	529986	8.32	878780	10.63	935023	14.05	912879	15.42
ZZZZZZ	208788	3.90	768101	5.62	398476	8.32	629862	10.63	613532	14.05	612157	15.43
JB15113-4R	242624	3.90	887435	5.62	504321	8.32	776511	10.64	803848	14.05	788339	15.43
ZZZZZZ	200237	3.90	743472	5.62	405186	8.33	673329	10.64	693475	14.05	637212	15.42

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB15113-4R	2P15929.D	60.0	65.0	82.0	57.0	64.0	104.0
OP59504-BS1	2P15821.D	57.0	66.0	96.0	67.0	72.0	114.0
OP59504-MB1	2P15820.D	58.0	62.0	76.0	66.0	66.0	115.0
OP59504-MS	2P15830.D	58.0	64.0	95.0	63.0	62.0	103.0
OP59504-MSD	2P15831.D	58.0	65.0	86.0	62.0	61.0	101.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	21-116%
S2 = Phenol-d5	19-117%
S3 = 2,4,6-Tribromophenol	24-136%
S4 = Nitrobenzene-d5	21-122%
S5 = 2-Fluorobiphenyl	30-117%
S6 = Terphenyl-d14	31-129%

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P689-ICC689
Lab FileID: 2P15079.D

```
                          Response Factor Report  MS2P

  Method       : C:\msdchem\1\METHODS\M2P691eph.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Thu Aug 02 15:07:29 2012
  Response via : Initial Calibration

  Calibration Files
  2   =2p15083.D   5   =2p15082.D   25  =2p15080.D   80  =2p15078.D
  100 =2p15077.D   50  =2p15079.D   1   =2p15084.D   10  =2p15081.D

   Compound         2     5     25    80    100   50    1     10    Avg %RSD
  -------------------------------------------------------------------------
102) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.141 1.100 1.020 1.014 0.985 1.030 0.954 1.100 1.043   6.17

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) Atrazine     0.100 0.119 0.139 0.139 0.142 0.143 0.079 0.130 0.124  18.82
106) 1,2,4,5-Tetr 0.688 0.644 0.616 0.609 0.624 0.631 0.655 0.646 0.639   3.95

107) I   Phenanthrene-d10a     ----------------ISTD---------------------
108) 1-chloroocta 0.195 0.245 0.280 0.281 0.275 0.293       0.275 0.263  12.77
109) o-terphenyl  0.523 0.539 0.521 0.538 0.529 0.554 0.471 0.550 0.528   4.90

110)     Chrysene-d12a         ----------------ISTD---------------------
111) Benzidine          0.469 0.608 0.666 0.565 0.556       0.597 0.577  11.39
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P691eph.M        Fri Aug 03 12:29:33 2012   RPT1
```

8.7.1

8

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P691-ICC691
Lab FileID: 2P15115.D

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 03 13:35:49 2012
Response via : Initial Calibration

Calibration Files
2 =2p15114.D 5 =2p15116.D 25 =2p15117.D 80 =2p15113.D
100 =2p15111.D 50 =2p15115.D 1 =2p15112.D 10 =2p15118.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.629	0.517	0.486	0.473	0.461	0.494	0.496	0.523	0.510	10.31
3) Pyridine	1.581	1.260	1.243	1.256	1.287	1.329	1.334	1.298	1.323	8.26
4) N-Nitrosodim	0.874	0.764	0.720	0.741	0.754	0.753	0.729	0.788	0.765	6.37
5) 2-Fluorophen	1.428	1.311	1.207	1.300	1.292	1.233	1.289	1.417	1.310	5.97
6) Indene	2.273	2.078	2.138	1.975	1.925	2.127	1.966	2.283	2.096	6.51
7) Cumene	2.984	2.713	2.700	2.605	2.605	2.746	2.593	2.987	2.742	5.86
8) Phenol-d5	1.665	1.518	1.386	1.489	1.476	1.439	1.517	1.642	1.517	6.27
9) Phenol	1.922	1.674	1.612	1.541	1.516	1.638	1.697	1.822	1.678	8.18
10) Aniline	2.157	1.834	1.766	1.441	1.605	1.795	1.918	2.010	1.816	12.36
11) bis(2-Chloro	1.203	1.064	1.036	1.063	1.062	1.066	1.034	1.194	1.090	6.24
12) 2-Chlorophen	1.512	1.345	1.334	1.319	1.305	1.361	1.306	1.502	1.373	6.18
13) Decane	1.314	1.169	1.126	1.075	1.072	1.136	1.183	1.223	1.162	6.89
14) 1,3-Dichloro	1.753	1.602	1.496	1.494	1.466	1.512	1.497	1.728	1.569	7.22
15) 1,4-Dichloro	1.797	1.602	1.519	1.510	1.486	1.513	1.512	1.743	1.585	7.56
16) Benzyl alcoh	0.891	0.783	0.791	0.798	0.799	0.809	0.772	0.870	0.814	5.24
17) 1,2-Dichloro	1.669	1.497	1.431	1.428	1.422	1.436	1.432	1.652	1.496	6.98
18) Acetophenone	1.886	1.671	1.662	1.584	1.565	1.660	1.646	1.825	1.687	6.62
19) 2-Methylphen	1.309	1.169	1.133	1.096	1.087	1.155	1.121	1.285	1.169	7.15
20) 2,2'-oxybis(	0.383	0.349	0.327	0.337	0.330	0.334	0.381	0.364	0.351	6.47
21) 3&4-Methylph	1.339	1.208	1.200	1.171	1.166	1.194	1.183	1.326	1.224	5.63
22) n-Nitroso-di	0.898	0.802	0.751	0.777	0.779	0.764	0.751	0.875	0.800	7.06
23) Hexachloroet	0.668	0.599	0.570	0.586	0.586	0.589	0.531	0.643	0.596	7.13
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.382	0.342	0.322	0.336	0.328	0.320	0.333	0.367	0.341	6.46
26) Nitrobenzene	0.396	0.354	0.327	0.333	0.329	0.331	0.341	0.374	0.348	7.16
27) Quinoline	0.743	0.662	0.671	0.656	0.648	0.664	0.646	0.723	0.677	5.34
28) Isophorone	0.628	0.575	0.547	0.550	0.548	0.547	0.544	0.624	0.570	6.25
29) 2-Nitropheno	0.213	0.188	0.199	0.199	0.194	0.202	0.163	0.214	0.196	8.10
30) 2,4-Dimethyl	0.335	0.293	0.308	0.307	0.305	0.311	0.270	0.346	0.309	7.57
31) Benzoic acid	0.150	0.179	0.220	0.233	0.262	0.225	0.193	0.204	0.208	16.71
32) bis(2-Chloro	0.412	0.369	0.352	0.357	0.354	0.351	0.350	0.394	0.368	6.33
33) 2,4-Dichloro	0.342	0.301	0.308	0.308	0.304	0.311	0.284	0.341	0.312	6.33
34) 2,6-Dichloro	0.347	0.318	0.302	0.291	0.287	0.301	0.286	0.334	0.308	7.31
35) 1,3,5-Trichl	0.411	0.377	0.375	0.354	0.341	0.366	0.337	0.415	0.372	7.85
36) 1,2,4-Trichl	0.413	0.372	0.352	0.354	0.347	0.349	0.340	0.395	0.365	7.15
37) 1,2,3-Trichl	0.392	0.360	0.353	0.339	0.332	0.349	0.336	0.387	0.356	6.38
38) Naphthalene	1.137	1.058	1.014	0.954	0.947	0.988	0.983	1.123	1.026	7.14
39) 4-Chloroanil	0.516	0.464	0.446	0.412	0.418	0.441	0.431	0.504	0.454	8.46
40) 2,3-Dichloro	0.431	0.375	0.371	0.348	0.347	0.363	0.347	0.403	0.373	8.10
41) Caprolactam	0.089	0.086	0.088	0.094	0.092	0.091	0.083	0.093	0.089	4.37
42) Hexachlorobu	0.233	0.212	0.204	0.209	0.198	0.201	0.191	0.232	0.210	7.24
43) 4-Chloro-3-m	0.304	0.277	0.269	0.278	0.270	0.276	0.266	0.296	0.279	4.85
44) 2-Methylnaph	0.654	0.612	0.568	0.564	0.556	0.560	0.589	0.637	0.593	6.32
45) 1-Methylnaph	0.638	0.562	0.562	0.544	0.525	0.540	0.510	0.602	0.560	7.43

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P691-ICC691
Lab FileID: 2P15115.D

46)	Dimethylnaph	0.638	0.579	0.580	0.542	0.528	0.562	0.561	0.629	0.577	6.75
47)	I Acenaphthene-d10	----------ISTD----------									
48)	Hexachlorocy	0.308	0.308	0.365	0.397	0.404	0.391	0.219	0.380	0.347	18.43
49)	2,4,6-Trichl	0.425	0.393	0.405	0.401	0.398	0.406	0.364	0.441	0.404	5.60
50)	2,4,5-Trichl	0.452	0.416	0.431	0.449	0.443	0.442	0.387	0.469	0.436	5.78
51)	2-Fluorobiph	1.490	1.328	1.244	1.257	1.247	1.252	1.227	1.469	1.314	8.11
52)	2-Chloronaph	1.336	1.205	1.124	1.100	1.072	1.111	1.113	1.329	1.174	8.96
53)	Biphenyl	1.555	1.436	1.396	1.308	1.289	1.370	1.322	1.574	1.406	7.75
54)	2-Nitroanili	0.349	0.302	0.303	0.290	0.290	0.296	0.295	0.343	0.309	7.68
55)	Dimethylphth	1.409	1.233	1.189	1.220	1.202	1.192	1.132	1.359	1.242	7.53
56)	Acenaphthyle	1.993	1.892	1.855	1.791	1.795	1.846	1.723	2.062	1.870	5.96
57)	2,6-Dinitrot	0.259	0.256	0.263	0.288	0.287	0.275	0.212	0.295	0.267	9.91
58)	3-Nitroanili	0.342	0.321	0.321	0.347	0.347	0.337	0.294	0.369	0.335	6.74
59)	Acenaphthene	1.289	1.143	1.118	1.088	1.100	1.117	1.078	1.248	1.148	6.78
60)	2,4-Dinitrop			0.071	0.146	0.133	0.108		0.047	0.101	41.34
61)	4-Nitropheno	0.145	0.131	0.154	0.171	0.170	0.165	0.133	0.161	0.154	10.44
62)	Dibenzofuran	1.880	1.729	1.627	1.607	1.586	1.621	1.628	1.876	1.694	7.15
63)	2,4-Dinitrot	0.365	0.329	0.358	0.384	0.384	0.368	0.277	0.396	0.358	10.79
64)	2,3,4,6-Tetr	0.368	0.341	0.352	0.383	0.376	0.372	0.293	0.384	0.359	8.44
65)	Diethylphtha	1.465	1.298	1.226	1.258	1.247	1.246	1.397	1.426	1.320	7.13
66)	Fluorene	1.385	1.268	1.242	1.219	1.207	1.239	1.203	1.418	1.272	6.49
67)	4-Chlorophen	0.709	0.632	0.604	0.621	0.614	0.606	0.567	0.692	0.631	7.51
68)	4-Nitroanili	0.335	0.307	0.325	0.348	0.348	0.345	0.250	0.359	0.327	10.76
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-			0.100	0.134	0.133	0.120		0.084	0.114	19.02
71)	n-Nitrosodip	0.618	0.542	0.534	0.531	0.549	0.532	0.520	0.613	0.555	6.93
72)	1,2-Diphenyl	0.774	0.702	0.669	0.649	0.731	0.660	0.627	0.779	0.699	8.23
73)	2,4,6-Tribro	0.129	0.121	0.118	0.132	0.139	0.121	0.110	0.141	0.126	8.32
74)	4-Bromopheny	0.237	0.222	0.215	0.221	0.232	0.220	0.210	0.255	0.227	6.39
75)	Hexachlorobe	0.299	0.259	0.256	0.265	0.272	0.257	0.260	0.290	0.270	6.02
76)	Pentachlorop	0.154	0.144	0.165	0.177	0.183	0.174	0.135	0.178	0.164	10.76
77)	Phenanthrene	1.253	1.092	1.050	0.988	1.012	1.025	1.044	1.212	1.085	8.93
78)	Anthracene	1.164	1.045	1.065	1.021	1.068	1.046	1.020	1.220	1.081	6.67
79)	Carbazole	1.167	1.028	1.026	0.983	1.023	1.034	0.967	1.158	1.048	7.09
80)	Di-n-butylph	1.375	1.219	1.235	1.262	1.287	1.268	1.175	1.434	1.282	6.59
81)	Fluoranthene	1.278	1.153	1.168	1.144	1.180	1.180	1.118	1.292	1.189	5.26
82)	Octadecane	0.252	0.230	0.225	0.207	0.215	0.221	0.217	0.258	0.228	7.97
83)	I Chrysene-d12	----------ISTD----------									
84)	Pyrene	1.425	1.280	1.208	1.232	1.271	1.258	1.208	1.445	1.291	7.20
85)	Terphenyl-d1	0.824	0.736	0.675	0.731	0.754	0.709	0.682	0.804	0.740	7.24
86)	Butylbenzylp	0.602	0.535	0.528	0.574	0.587	0.567	0.526	0.619	0.568	6.17
87)	Butyl steara	0.045	0.041	0.046	0.054	0.056	0.050	0.041	0.052	0.048	11.57
88)	Benzo[a]anth	1.238	1.086	1.048	1.081	1.112	1.105	1.068	1.216	1.119	6.22
89)	3,3'-Dichlor	0.458	0.416	0.401	0.420	0.412	0.419	0.348	0.474	0.419	9.03
90)	Chrysene	1.173	1.077	1.014	1.004	1.022	1.016	1.002	1.178	1.061	7.03
91)	bis(2-Ethylh	0.777	0.706	0.722	0.774	0.801	0.767	0.691	0.819	0.757	6.05
92)	I Perylene-d12	----------ISTD----------									
93)	Di-n-octylph	1.523	1.346	1.327	1.440	1.461	1.435	1.300	1.542	1.422	6.30
94)	Benzo[b]fluo	1.240	1.103	1.141	1.370	1.331	1.375	1.025	1.402	1.248	11.49
95)	Benzo[k]fluo	1.350	1.302	1.183	0.990	1.025	1.062	1.077	1.283	1.159	12.00
96)	Benzo[a]pyre	1.209	1.106	1.080	1.129	1.143	1.177	1.004	1.273	1.140	7.21
97)	Indeno[1,2,3	1.311	1.204	1.224	1.328	1.333	1.331	1.110	1.375	1.277	6.96
98)	Dibenz(a,h)a	0.900	0.820	0.872	0.960	0.956	0.959	0.788	0.957	0.901	7.64
99)	Dibenz[a,h]a	1.074	0.977	1.004	1.085	1.076	1.083	0.895	1.124	1.040	7.24
100)	7,12-Dimethy	0.620	0.531	0.554	0.535	0.527	0.564	0.452	0.642	0.553	10.64
101)	Benzo[g,h,i]	1.129	1.034	1.033	1.128	1.139	1.117	0.950	1.163	1.086	6.72

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICC691
Lab FileID: 2P15115.D

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-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2P691.M          Fri Aug 03 13:39:00 2012   RPT1
```

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15119.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p691\2p15119.D Vial: 10
Acq On : 2 Aug 2012 1:02 pm Operator: andrews1
Sample : icv691-50 Inst : MS2P
Misc : op56933,e2p691,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 03 13:35:49 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	129	0.00	4.02
3	t	Pyridine	1.323	1.318	0.4	127	0.01	1.77
4	t	N-Nitrosodimethylamine	0.765	0.737	3.7	126	0.00	1.75
11	t	bis(2-Chloroethyl)ether	1.090	1.158	-6.2	140	-0.01	3.75
14	t	1,3-Dichlorobenzene	1.569	1.553	1.0	132	0.00	3.98
15	t	1,4-Dichlorobenzene	1.585	1.585	0.0	135	0.00	4.05
16	t	Benzyl alcohol	0.814	0.804	1.2	128	-0.01	4.23
17	t	1,2-Dichlorobenzene	1.496	1.512	-1.1	135	0.00	4.28
20	t	2,2'-oxybis(1-Chloropropa	0.351	0.348	0.9	134	0.00	4.44
22	t	n-Nitroso-di-n-propylamin	0.800	0.760	5.0	128	-0.02	4.62
23	t	Hexachloroethane	0.596	0.619	-3.9	135	0.00	4.68
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	5.76
26	t	Nitrobenzene	0.348	0.347	0.3	130	-0.01	4.80
28	t	Isophorone	0.570	0.607	-6.5	138	-0.02	5.13
32	t	bis(2-Chloroethoxy)methan	0.368	0.396	-7.6	140	-0.01	5.48
36	t	1,2,4-Trichlorobenzene	0.365	0.382	-4.7	136	0.00	5.71
38	t	Naphthalene	1.026	1.038	-1.2	131	0.00	5.78
42	t	Hexachlorobutadiene	0.210	0.222	-5.7	137	0.00	6.09
44	t	2-Methylnaphthalene	0.593	0.548	7.6	121	0.00	6.83
47	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00	8.47
48	t	Hexachlorocyclopentadiene	0.347	0.376	-8.4	114	0.00	7.21
52	t	2-Chloronaphthalene	1.174	1.244	-6.0	132	0.00	7.57
54	t	2-Nitroaniline	0.309	0.308	0.3	123	-0.01	7.81
55	t	Dimethylphthalate	1.242	1.288	-3.7	127	0.00	8.20
56	t	Acenaphthylene	1.870	1.833	2.0	117	0.00	8.22
57	t	2,6-Dinitrotoluene	0.267	0.295	-10.5	126	-0.01	8.27
58	t	3-Nitroaniline	0.335	0.293	12.5	102	-0.01	8.47
59	t	Acenaphthene	1.148	1.183	-3.0	125	0.00	8.52
62	t	Dibenzofuran	1.694	1.710	-0.9	124	0.00	8.77
63	t	2,4-Dinitrotoluene	0.358	0.368	-2.8	118	-0.01	8.87
65	t	Diethylphthalate	1.320	1.301	1.4	123	0.00	9.33
66	t	Fluorene	1.272	1.335	-5.0	127	0.00	9.32
67	t	4-Chlorophenyl-phenylethe	0.631	0.664	-5.2	129	0.00	9.36
68	t	4-Nitroaniline	0.327	0.325	0.6	111	-0.03	9.44
69	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00	10.78
71	t	n-Nitrosodiphenylamine	0.555	0.565	-1.8	121	0.00	9.57
72	t	1,2-Diphenylhydrazine	0.699	0.740	-5.9	128	0.00	9.61
74	t	4-Bromophenyl-phenylether	0.227	0.241	-6.2	125	0.00	10.12
75	t	Hexachlorobenzene	0.270	0.284	-5.2	126	0.00	10.32

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15119.D

77	t	Phenanthrene	1.085	1.116	-2.9	124	0.00	10.82
78	t	Anthracene	1.081	1.144	-5.8	124	0.00	10.89
79	t	Carbazole	1.048	1.033	1.4	114	-0.01	11.17
80	t	Di-n-butylphthalate	1.282	1.338	-4.4	120	0.00	11.86
81	t	Fluoranthene	1.189	1.199	-0.8	116	0.00	12.50
83	I	Chrysene-d12	1.000	1.000	0.0	104	0.00	14.16
84	t	Pyrene	1.291	1.375	-6.5	114	0.00	12.77
86	t	Butylbenzylphthalate	0.568	0.608	-7.0	112	0.00	13.65
88	t	Benzo[a]anthracene	1.119	1.161	-3.8	109	0.00	14.14
89	t	3,3'-Dichlorobenzidine	0.419	0.356	15.0	88	0.00	14.15
90	t	Chrysene	1.061	1.125	-6.0	115	0.00	14.19
91	t	bis(2-Ethylhexyl)phthalat	0.757	0.846	-11.8	115	0.00	14.31
92	I	Perylene-d12	1.000	1.000	0.0	101	0.00	15.53
93	t	Di-n-octylphthalate	1.422	1.608	-13.1	114	0.00	14.90
94	t	Benzo[b]fluoranthene	1.248	1.381	-10.7	102	0.00	15.20
95	t	Benzo[k]fluoranthene	1.159	1.213	-4.7	116	-0.01	15.22
96	t	Benzo[a]pyrene	1.140	1.248	-9.5	108	0.00	15.48
97	t	Indeno[1,2,3-cd]pyrene	1.277	1.459	-14.3	111	0.00	16.57
99	t	Dibenz[a,h]anthracene	1.040	1.173	-12.8	110	0.00	16.58
101	t	Benzo[g,h,i]perylene	1.086	1.261	-16.1	114	0.01	16.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Fri Aug 03 13:52:51 2012 RPT1

8.7.3

8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV689
Lab FileID: 2P15119A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p691\2p15119a.D          Vial: 10
Acq On    :  2 Aug 2012   1:02 pm                   Operator: andrews1
Sample    : icv689-50                               Inst    : MS2P
Misc      : op56933,e2p691,1000,,,1,1               Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M2P691eph.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Aug 02 15:07:29 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	102	0.00	8.47
106	1,2,4,5-Tetrachlorobenzen	0.639	0.600	6.1	97	0.00	7.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691eph.M Fri Aug 03 16:42:00 2012 RPT1

8.7.4
8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV689
Lab FileID: 2P15120A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p691\2p15120a.D          Vial: 11
Acq On    :  2 Aug 2012   1:25 pm                   Operator: andrews1
Sample    : icv689-50                               Inst    : MS2P
Misc      : op56933,e2p691,1000,,,1,1               Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Aug 03 13:35:49 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	110	0.00	4.02
103	Benzaldehyde	1.043	0.955	8.4	102	0.00	3.53
104	Acenaphthene-d10a	1.000	1.000	0.0	113	0.00	8.47
105	Atrazine	0.124	0.167	-34.7#	132	0.00	10.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Fri Aug 03 16:22:15 2012 RPT1

8.7.5
8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15120.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p691\2p15120.D Vial: 11
Acq On : 2 Aug 2012 1:25 pm Operator: andrews1
Sample : icv691-50 Inst : MS2P
Misc : op56933,e2p691,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 03 13:35:49 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	0.00	4.02
2	t	1,4-Dioxane	0.510	0.486	4.7	132	0.02	1.58
6	t	Indene	2.096	2.262	-7.9	143	0.00	4.38
7	t	Cumene	2.742	2.807	-2.4	137	0.00	3.18
13	t	Decane	1.162	1.133	2.5	134	0.00	3.88
18	t	Acetophenone	1.687	1.806	-7.1	146	-0.01	4.57
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.76
26	t	Nitrobenzene	0.348	0.380	-9.2	150	-0.24	4.57
27	t	Quinoline	0.677	0.727	-7.4	143	-0.02	6.29
40	t	2,3-Dichloroaniline	0.373	0.372	0.3	134	0.00	7.33
41	t	Caprolactam	0.089	0.096	-7.9	139	-0.08	6.38
45	t	1-Methylnaphthalene	0.560	0.607	-8.4	147	0.00	6.99
46	t	Dimethylnaphthalene	0.577	0.623	-8.0	145	0.00	7.82
47	I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00	8.47
53	t	Biphenyl	1.406	1.502	-6.8	143	0.00	7.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	124	-0.01	10.77
82	t	Octadecane	0.228	0.255	-11.8	144	0.00	10.80
92	I	Perylene-d12	1.000	1.000	0.0	105	0.00	15.53
100	t	7,12-Dimethylbenz(a)anthr	0.553	0.565	-2.2	105	-0.02	15.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Fri Aug 03 16:34:25 2012 RPT1

8.7.6

8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15121.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p691\2p15121.D Vial: 12
Acq On : 2 Aug 2012 1:48 pm Operator: andrews1
Sample : icv691-50 Inst : MS2P
Misc : op56933,e2p691,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Aug 02 15:07:29 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	178	0.00	4.03
9	t	Phenol	1.678	1.524	9.2	166	0.00	3.68
12	t	2-Chlorophenol	1.373	1.355	1.3	178	0.00	3.81
19	t	2-Methylphenol	1.169	1.128	3.5	174	0.00	4.41
21	t	3&4-Methylphenol	1.224	1.169	4.5	175	-0.01	4.61
24	I	Naphthalene-d8	1.000	1.000	0.0	177	0.00	5.76
29	t	2-Nitrophenol	0.196	0.205	-4.6	179	0.00	5.25
30	t	2,4-Dimethylphenol	0.309	0.317	-2.6	180	0.00	5.35
31	t	Benzoic acid	0.208	0.222	-6.7	175	-0.03	5.57
33	t	2,4-Dichlorophenol	0.312	0.307	1.6	175	0.00	5.59
34	t	2,6-Dichlorophenol	0.308	0.313	-1.6	184	-0.01	5.93
43	t	4-Chloro-3-methylphenol	0.279	0.271	2.9	174	-0.02	6.70
47	I	Acenaphthene-d10	1.000	1.000	0.0	174	0.00	8.47
49	t	2,4,6-Trichlorophenol	0.404	0.417	-3.2	179	0.00	7.33
50	t	2,4,5-Trichlorophenol	0.436	0.449	-3.0	177	-0.02	7.38
60	t	2,4-Dinitrophenol	0.101	0.078	22.7	128	-0.02	8.62
61	t	4-Nitrophenol	0.154	0.157	-1.9	166	-0.01	8.80
64		2,3,4,6-Tetrachlorophenol	0.359	0.362	-0.8	170	0.00	9.06
69	I	Phenanthrene-d10	1.000	1.000	0.0	166	0.00	10.78
70	t	4,6-Dinitro-2-methylpheno	0.114	0.106	7.0	146	-0.02	9.50
76	t	Pentachlorophenol	0.164	0.178	-8.5	172	-0.01	10.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Thu Aug 02 15:44:57 2012 RPT1

8.7.7

8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15122.D

Evaluate Continuing Calibration Report

```
  Data File : C:\msdchem\1\DATA\2p691\2p15122.D            Vial: 13
  Acq On    :  2 Aug 2012   2:11 pm                    Operator: andrews1
  Sample    : icv691-50                                Inst    : MS2P
  Misc      : op56933,e2p691,1000,,,1,1                Multiplr: 1.00
  MS Integration Params: lscint.p

  Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Fri Aug 03 13:35:49 2012
  Response via : Multiple Level Calibration

  Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
  Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107	Chrysene-d12a	1.000	1.000	0.0	98	0.00	14.15
108	Benzidine	0.577	0.734	-27.2	130	0.00	12.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Fri Aug 03 15:37:20 2012 RPT1

8.7.8

8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15123.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p691\2p15123.D          Vial: 14
Acq On    :  2 Aug 2012   3:40 pm                   Operator: andrews1
Sample    : icv691-50                               Inst    : MS2P
Misc      : op56933,e2p691,1000,,,1,1               Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Aug 02 15:57:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	177	0.00	4.02
10		Aniline	1.816	1.820	-0.2	180	0.00	3.68
24	I	Naphthalene-d8	1.000	1.000	0.0	174	-0.01	5.75
39	t	4-Chloroaniline	0.454	0.444	2.2	176	-0.01	5.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Thu Aug 02 16:49:03 2012 RPT1

8.7.9

8

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P691-ICV691
Lab FileID: 2P15124.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p691\2p15124.D            Vial: 15
Acq On    :  2 Aug 2012   4:03 pm                     Operator: andrews1
Sample    : icv691-50                                 Inst    : MS2P
Misc      : op56933,e2p691,1000,,,1,1                 Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Aug 02 15:57:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	149	0.00	4.02
5	S	2-Fluorophenol	1.310	1.296	1.1	157	0.00	2.70
8	S	Phenol-d5	1.517	1.461	3.7	151	-0.01	3.65
24	I	Naphthalene-d8	1.000	1.000	0.0	149	0.00	5.76
25	S	Nitrobenzene-d5	0.341	0.342	-0.3	159	-0.01	4.77
47	I	Acenaphthene-d10	1.000	1.000	0.0	145	0.00	8.47
51	S	2-Fluorobiphenyl	1.314	1.303	0.8	151	-0.01	7.46
69	I	Phenanthrene-d10	1.000	1.000	0.0	138	-0.01	10.77
73	S	2,4,6-Tribromophenol	0.126	0.118	6.3	135	-0.01	9.73
83	I	Chrysene-d12	1.000	1.000	0.0	126	-0.01	14.15
85	S	Terphenyl-d14	0.740	0.883	-19.3	156	0.00	13.02

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2p15079.D  M2P691.M         Thu Aug 02 16:50:20 2012   RPT1
```

8.7.10

8

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P718-CC691
Lab FileID: 2P15818.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p718\2p15818.D Vial: 2
Acq On : 4 Sep 2012 9:07 am Operator: andrews1
Sample : cc691-25 Inst : MS2P
Misc : op59391,e2p718,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Sep 04 09:18:20 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	-0.12	3.91
2	t	1,4-Dioxane	0.510	0.483	5.3	83	-0.07	1.49
3	t	Pyridine	1.323	1.273	3.8	86	-0.08	1.68
4	t	N-Nitrosodimethylamine	0.765	0.737	3.7	86	-0.08	1.66
5	S	2-Fluorophenol	1.310	1.216	7.2	84	-0.08	2.62
6	t	Indene	2.096	2.284	-9.0	89	-0.12	4.26
7	t	Cumene	2.742	3.090	-12.7	96	-0.11	3.07
8	S	Phenol-d5	1.517	1.558	-2.7	94	-0.09	3.58
9	t	Phenol	1.678	1.735	-3.4	90	-0.09	3.59
10		Aniline	1.816	1.790	1.4	85	-0.11	3.57
11	t	bis(2-Chloroethyl)ether	1.090	1.121	-2.8	91	-0.12	3.64
12	t	2-Chlorophenol	1.373	1.416	-3.1	89	-0.11	3.71
13	t	Decane	1.162	1.381	-18.8	103	-0.12	3.76
14	t	1,3-Dichlorobenzene	1.569	1.570	-0.1	88	-0.12	3.86
15	t	1,4-Dichlorobenzene	1.585	1.599	-0.9	88	-0.12	3.93
16	t	Benzyl alcohol	0.814	0.858	-5.4	91	-0.12	4.13
17	t	1,2-Dichlorobenzene	1.496	1.513	-1.1	88	-0.12	4.16
18	t	Acetophenone	1.687	1.785	-5.8	90	-0.12	4.46
19	t	2-Methylphenol	1.169	1.203	-2.9	89	-0.10	4.32
20	t	2,2'-oxybis(1-Chloropropa	0.351	0.341	2.8	87	-0.12	4.32
21	t	3&4-Methylphenol	1.224	1.283	-4.8	89	-0.10	4.52
22	t	n-Nitroso-di-n-propylamin	0.800	0.901	-12.6	100	-0.13	4.51
23	t	Hexachloroethane	0.596	0.576	3.4	85	-0.13	4.55
24	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.13	5.63
25	S	Nitrobenzene-d5	0.341	0.364	-6.7	100	-0.13	4.65
26	t	Nitrobenzene	0.348	0.372	-6.9	101	-0.13	4.68
27	t	Quinoline	0.677	0.683	-0.9	90	-0.14	6.16
28	t	Isophorone	0.570	0.598	-4.9	97	-0.13	5.01
29	t	2-Nitrophenol	0.196	0.205	-4.6	91	-0.12	5.13
30	t	2,4-Dimethylphenol	0.309	0.310	-0.3	89	-0.11	5.25
31	t	Benzoic acid	0.208	0.196	5.8	79	-0.15	5.45
32	t	bis(2-Chloroethoxy)methan	0.368	0.367	0.3	92	-0.13	5.36
33	t	2,4-Dichlorophenol	0.312	0.307	1.6	88	-0.11	5.49
34	t	2,6-Dichlorophenol	0.308	0.308	0.0	90	-0.12	5.82
35		1,3,5-Trichlorobenzene	0.372	0.367	1.3	87	-0.13	5.14
36	t	1,2,4-Trichlorobenzene	0.365	0.343	6.0	87	-0.13	5.58
37		1,2,3-Trichlorobenzene	0.356	0.344	3.4	86	-0.13	5.93
38	t	Naphthalene	1.026	1.041	-1.5	91	-0.13	5.65
39	t	4-Chloroaniline	0.454	0.459	-1.1	91	-0.13	5.80
40	t	2,3-Dichloroaniline	0.373	0.375	-0.5	90	-0.13	7.21
41	t	Caprolactam	0.089	0.092	-3.4	93	-0.19	6.27

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P718-CC691
Lab FileID: 2P15818.D

42	t	Hexachlorobutadiene	0.210	0.199	5.2	87	-0.14	5.95
43	t	4-Chloro-3-methylphenol	0.279	0.300	-7.5	99	-0.10	6.62
44	t	2-Methylnaphthalene	0.593	0.628	-5.9	98	-0.13	6.70
45	t	1-Methylnaphthalene	0.560	0.593	-5.9	94	-0.13	6.86
46	t	Dimethylnaphthalene	0.577	0.601	-4.2	92	-0.14	7.68
47	I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.13	8.33
48	t	Hexachlorocyclopentadiene	0.347	0.311	10.4	73	-0.14	7.07
49	t	2,4,6-Trichlorophenol	0.404	0.398	1.5	85	-0.12	7.22
50	t	2,4,5-Trichlorophenol	0.436	0.418	4.1	84	-0.11	7.29
51	S	2-Fluorobiphenyl	1.314	1.290	1.8	89	-0.14	7.33
52	t	2-Chloronaphthalene	1.174	1.192	-1.5	91	-0.13	7.44
53	t	Biphenyl	1.406	1.529	-8.7	94	-0.14	7.45
54	t	2-Nitroaniline	0.309	0.394	-27.5#	112	-0.13	7.69
55	t	Dimethylphthalate	1.242	1.291	-3.9	93	-0.14	8.06
56	t	Acenaphthylene	1.870	1.972	-5.5	91	-0.14	8.09
57	t	2,6-Dinitrotoluene	0.267	0.280	-4.9	92	-0.14	8.14
58	t	3-Nitroaniline	0.335	0.351	-4.8	94	-0.13	8.35
59	t	Acenaphthene	1.148	1.237	-7.8	95	-0.14	8.38
60	t	2,4-Dinitrophenol	0.101	0.122	-20.8#	147	-0.11	8.53
61	t	4-Nitrophenol	0.154	0.139	9.7	77	-0.06	8.75
62	t	Dibenzofuran	1.694	1.708	-0.8	90	-0.14	8.64
63	t	2,4-Dinitrotoluene	0.358	0.384	-7.3	92	-0.12	8.76
64		2,3,4,6-Tetrachlorophenol	0.359	0.327	8.9	80	-0.12	8.95
65	t	Diethylphthalate	1.320	1.361	-3.1	95	-0.15	9.19
66	t	Fluorene	1.272	1.355	-6.5	94	-0.14	9.18
67	t	4-Chlorophenyl-phenylethe	0.631	0.636	-0.8	91	-0.14	9.23
68	t	4-Nitroaniline	0.327	0.339	-3.7	90	-0.14	9.32
69	I	Phenanthrene-d10	1.000	1.000	0.0	86	-0.14	10.65
70	t	4,6-Dinitro-2-methylpheno	0.114	0.130	-14.0	112	-0.12	9.40
71	t	n-Nitrosodiphenylamine	0.555	0.567	-2.2	92	-0.14	9.44
72	t	1,2-Diphenylhydrazine	0.699	0.747	-6.9	97	-0.14	9.47
73	S	2,4,6-Tribromophenol	0.126	0.133	-5.6	97	-0.13	9.60
74	t	4-Bromophenyl-phenylether	0.227	0.234	-3.1	94	-0.14	9.98
75	t	Hexachlorobenzene	0.270	0.277	-2.6	94	-0.13	10.19
76	t	Pentachlorophenol	0.164	0.135	17.7	71	-0.12	10.50
77	t	Phenanthrene	1.085	1.128	-4.0	93	-0.14	10.68
78	t	Anthracene	1.081	1.148	-6.2	93	-0.14	10.75
79	t	Carbazole	1.048	1.091	-4.1	92	-0.13	11.05
80	t	Di-n-butylphthalate	1.282	1.293	-0.9	90	-0.13	11.74
81	t	Fluoranthene	1.189	1.210	-1.8	90	-0.12	12.39
82	t	Octadecane	0.228	0.271	-18.9	104	-0.14	10.66
83	I	Chrysene-d12	1.000	1.000	0.0	86	-0.11	14.05
84	t	Pyrene	1.291	1.239	4.0	88	-0.12	12.66
85	S	Terphenyl-d14	0.740	0.739	0.1	94	-0.11	12.91
86	t	Butylbenzylphthalate	0.568	0.558	1.8	90	-0.11	13.54
87		Butyl stearate	0.048	0.057	-18.8	105	-0.11	13.61
88	t	Benzo[a]anthracene	1.119	1.108	1.0	90	-0.11	14.04
89	t	3,3'-Dichlorobenzidine	0.419	0.447	-6.7	95	-0.11	14.05
90	t	Chrysene	1.061	1.033	2.6	87	-0.11	14.08
91	t	bis(2-Ethylhexyl)phthalat	0.757	0.773	-2.1	92	-0.11	14.20
92	I	Perylene-d12	1.000	1.000	0.0	84	-0.11	15.43
93	t	Di-n-octylphthalate	1.422	1.471	-3.4	93	-0.11	14.79
94	t	Benzo[b]fluoranthene	1.248	1.255	-0.6	92	-0.11	15.10
95	t	Benzo[k]fluoranthene	1.159	1.289	-11.2	92	-0.12	15.12
96	t	Benzo[a]pyrene	1.140	1.168	-2.5	91	-0.11	15.38
97	t	Indeno[1,2,3-cd]pyrene	1.277	1.386	-8.5	95	-0.15	16.42

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P718-CC691
Lab FileID: 2P15818.D

98	t	Dibenz(a,h)acridine	0.901	1.004	-11.4	97	-0.14	16.20
99	t	Dibenz[a,h]anthracene	1.040	1.134	-9.0	95	-0.16	16.43
100	t	7,12-Dimethylbenz(a)anthr	0.553	0.571	-3.3	87	-0.12	15.11
101	t	Benzo[g,h,i]perylene	1.086	1.154	-6.3	94	-0.14	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15080.D M2P691.M Tue Sep 04 14:06:53 2012 RPT1

8.7.11

8

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: E2P718-CC689
Lab FileID: 2P15819.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p718\2p15819.D            Vial: 3
Acq On    :  4 Sep 2012   9:31 am                     Operator: andrews1
Sample    : cc689-25                                  Inst    : MS2P
Misc      : op59391,e2p718,1000,,,1,1                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Sep 05 09:15:41 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	125	-0.12	3.91
103	Benzaldehyde	1.043	1.081	-3.6	133	-0.11	3.41
104	Acenaphthene-d10a	1.000	1.000	0.0	139	-0.13	8.33
105	Atrazine	0.124	0.167	-34.7#	167	-0.13	10.39
106	1,2,4,5-Tetrachlorobenzen	0.639	0.689	-7.8	155	-0.13	7.03
107	Chrysene-d12a	1.000	1.000	0.0	153	-0.10	14.05
108	Benzidine	0.577	0.624	-8.1	157	-0.11	12.61

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2p15080.D  M2P691.M         Wed Sep 05 14:27:56 2012   RPT1
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8.7.12

8

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P721-CC691
Lab FileID: 2P15905.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p721\2p15905.D Vial: 2
Acq On : 7 Sep 2012 9:16 am Operator: andrews1
Sample : cc691-50 Inst : MS2P
Misc : op59391,e2p721,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Sep 07 11:40:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	-0.14	3.89
2	t	1,4-Dioxane	0.510	0.484	5.1	124	-0.09	1.48
3	t	Pyridine	1.323	1.265	4.4	121	-0.09	1.67
4	t	N-Nitrosodimethylamine	0.765	0.773	-1.0	130	-0.09	1.65
5	S	2-Fluorophenol	1.310	1.244	5.0	128	-0.10	2.61
6	t	Indene	2.096	2.235	-6.6	133	-0.14	4.24
7	t	Cumene	2.742	3.082	-12.4	142	-0.13	3.05
8	S	Phenol-d5	1.517	1.540	-1.5	135	-0.10	3.56
9	t	Phenol	1.678	1.774	-5.7	137	-0.10	3.58
10		Aniline	1.816	1.671	8.0	118	-0.13	3.55
11	t	bis(2-Chloroethyl)ether	1.090	1.065	2.3	127	-0.13	3.63
12	t	2-Chlorophenol	1.373	1.377	-0.3	128	-0.12	3.69
13	t	Decane	1.162	1.351	-16.3	151	-0.14	3.75
14	t	1,3-Dichlorobenzene	1.569	1.548	1.3	130	-0.14	3.85
15	t	1,4-Dichlorobenzene	1.585	1.555	1.9	130	-0.14	3.91
16	t	Benzyl alcohol	0.814	0.819	-0.6	128	-0.13	4.11
17	t	1,2-Dichlorobenzene	1.496	1.453	2.9	128	-0.14	4.14
18	t	Acetophenone	1.687	1.719	-1.9	131	-0.14	4.45
19	t	2-Methylphenol	1.169	1.157	1.0	127	-0.11	4.31
20	t	2,2'-oxybis(1-Chloropropa	0.351	0.316	10.0	120	-0.14	4.31
21	t	3&4-Methylphenol	1.224	1.236	-1.0	131	-0.12	4.51
22	t	n-Nitroso-di-n-propylamin	0.800	0.877	-9.6	145	-0.14	4.49
23	t	Hexachloroethane	0.596	0.565	5.2	122	-0.15	4.53
24	I	Naphthalene-d8	1.000	1.000	0.0	125	-0.15	5.61
25	S	Nitrobenzene-d5	0.341	0.364	-6.7	142	-0.14	4.64
26	t	Nitrobenzene	0.348	0.363	-4.3	137	-0.14	4.67
27	t	Quinoline	0.677	0.659	2.7	124	-0.16	6.15
28	t	Isophorone	0.570	0.582	-2.1	133	-0.15	4.99
29	t	2-Nitrophenol	0.196	0.209	-6.6	129	-0.14	5.11
30	t	2,4-Dimethylphenol	0.309	0.321	-3.9	129	-0.12	5.23
31	t	Benzoic acid	0.208	0.212	-1.9	118	-0.10	5.51
32	t	bis(2-Chloroethoxy)methan	0.368	0.358	2.7	128	-0.15	5.34
33	t	2,4-Dichlorophenol	0.312	0.306	1.9	123	-0.12	5.47
34	t	2,6-Dichlorophenol	0.308	0.303	1.6	126	-0.14	5.80
35		1,3,5-Trichlorobenzene	0.372	0.371	0.3	127	-0.14	5.12
36	t	1,2,4-Trichlorobenzene	0.365	0.339	7.1	121	-0.15	5.56
37		1,2,3-Trichlorobenzene	0.356	0.342	3.9	123	-0.16	5.91
38	t	Naphthalene	1.026	1.056	-2.9	134	-0.15	5.64
39	t	4-Chloroaniline	0.454	0.448	1.3	127	-0.14	5.79
40	t	2,3-Dichloroaniline	0.373	0.373	0.0	129	-0.15	7.18
41	t	Caprolactam	0.089	0.089	0.0	123	-0.17	6.29

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P721-CC691
Lab FileID: 2P15905.D

42	t	Hexachlorobutadiene	0.210	0.210	0.0	131	-0.16	5.93
43	t	4-Chloro-3-methylphenol	0.279	0.295	-5.7	134	-0.11	6.61
44	t	2-Methylnaphthalene	0.593	0.623	-5.1	139	-0.15	6.68
45	t	1-Methylnaphthalene	0.560	0.601	-7.3	139	-0.16	6.84
46	t	Dimethylnaphthalene	0.577	0.581	-0.7	129	-0.16	7.66
47	I	Acenaphthene-d10	1.000	1.000	0.0	121	-0.15	8.31
48	t	Hexachlorocyclopentadiene	0.347	0.362	-4.3	112	-0.16	7.05
49	t	2,4,6-Trichlorophenol	0.404	0.399	1.2	119	-0.13	7.21
50	t	2,4,5-Trichlorophenol	0.436	0.418	4.1	114	-0.12	7.28
51	S	2-Fluorobiphenyl	1.314	1.305	0.7	126	-0.16	7.31
52	t	2-Chloronaphthalene	1.174	1.184	-0.9	129	-0.15	7.42
53	t	Biphenyl	1.406	1.512	-7.5	134	-0.16	7.43
54	t	2-Nitroaniline	0.309	0.377	-22.0#	154	-0.14	7.68
55	t	Dimethylphthalate	1.242	1.236	0.5	126	-0.16	8.05
56	t	Acenaphthylene	1.870	1.933	-3.4	127	-0.16	8.07
57	t	2,6-Dinitrotoluene	0.267	0.280	-4.9	123	-0.15	8.13
58	t	3-Nitroaniline	0.335	0.340	-1.5	122	-0.14	8.33
59	t	Acenaphthene	1.148	1.215	-5.8	132	-0.16	8.36
60	t	2,4-Dinitrophenol	0.101	0.124	-22.8#	139	-0.13	8.51
61	t	4-Nitrophenol	0.154	0.128	16.9	94	-0.08	8.74
62	t	Dibenzofuran	1.694	1.658	2.1	124	-0.16	8.62
63	t	2,4-Dinitrotoluene	0.358	0.382	-6.7	126	-0.14	8.75
64		2,3,4,6-Tetrachlorophenol	0.359	0.288	19.8	94	-0.14	8.93
65	t	Diethylphthalate	1.320	1.370	-3.8	133	-0.17	9.17
66	t	Fluorene	1.272	1.367	-7.5	134	-0.16	9.16
67	t	4-Chlorophenyl-phenylethe	0.631	0.620	1.7	124	-0.16	9.21
68	t	4-Nitroaniline	0.327	0.323	1.2	113	-0.15	9.32
69	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.16	10.62
70	t	4,6-Dinitro-2-methylpheno	0.114	0.126	-10.5	124	-0.13	9.39
71	t	n-Nitrosodiphenylamine	0.555	0.557	-0.4	125	-0.16	9.42
72	t	1,2-Diphenylhydrazine	0.699	0.811	-16.0	146	-0.17	9.45
73	S	2,4,6-Tribromophenol	0.126	0.128	-1.6	126	-0.15	9.58
74	t	4-Bromophenyl-phenylether	0.227	0.228	-0.4	123	-0.17	9.96
75	t	Hexachlorobenzene	0.270	0.273	-1.1	126	-0.15	10.16
76	t	Pentachlorophenol	0.164	0.135	17.7	92	-0.14	10.48
77	t	Phenanthrene	1.085	1.110	-2.3	129	-0.16	10.66
78	t	Anthracene	1.081	1.136	-5.1	129	-0.16	10.73
79	t	Carbazole	1.048	1.072	-2.3	124	-0.15	11.04
80	t	Di-n-butylphthalate	1.282	1.303	-1.6	122	-0.15	11.72
81	t	Fluoranthene	1.189	1.239	-4.2	125	-0.13	12.37
82	t	Octadecane	0.228	0.276	-21.1#	149	-0.16	10.64
83	I	Chrysene-d12	1.000	1.000	0.0	130	-0.12	14.04
84	t	Pyrene	1.291	1.163	9.9	121	-0.13	12.64
85	S	Terphenyl-d14	0.740	0.678	8.4	125	-0.13	12.89
86	t	Butylbenzylphthalate	0.568	0.523	7.9	120	-0.13	13.52
87		Butyl stearate	0.048	0.053	-10.4	139	-0.13	13.59
88	t	Benzo[a]anthracene	1.119	1.048	6.3	124	-0.12	14.02
89	t	3,3'-Dichlorobenzidine	0.419	0.431	-2.9	134	-0.12	14.03
90	t	Chrysene	1.061	0.944	11.0	121	-0.12	14.06
91	t	bis(2-Ethylhexyl)phthalat	0.757	0.742	2.0	126	-0.13	14.18
92	I	Perylene-d12	1.000	1.000	0.0	120	-0.12	15.41
93	t	Di-n-octylphthalate	1.422	1.428	-0.4	119	-0.13	14.77
94	t	Benzo[b]fluoranthene	1.248	1.410	-13.0	123	-0.13	15.08
95	t	Benzo[k]fluoranthene	1.159	1.120	3.4	126	-0.13	15.11
96	t	Benzo[a]pyrene	1.140	1.111	2.5	113	-0.12	15.36
97	t	Indeno[1,2,3-cd]pyrene	1.277	1.353	-6.0	122	-0.17	16.40

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P721-CC691
Lab FileID: 2P15905.D

98	t	Dibenz(a,h)acridine	0.901	0.965	-7.1	121	-0.16	16.18
99	t	Dibenz[a,h]anthracene	1.040	1.111	-6.8	123	-0.18	16.41
100	t	7,12-Dimethylbenz(a)anthr	0.553	0.588	-6.3	125	-0.13	15.10
101	t	Benzo[g,h,i]perylene	1.086	1.109	-2.1	119	-0.17	16.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p15079.D M2P691.M Fri Sep 07 13:28:47 2012 RPT1

8.7.13

8

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: E2P721-CC689
Lab FileID: 2P15906.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2p721\2p15906.D          Vial: 3
Acq On    :  7 Sep 2012   9:40 am                   Operator: andrews1
Sample    : cc689-25                                Inst    : MS2P
Misc      : op59391,e2p721,1000,,,1,1               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2P691.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Sep 07 11:40:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	154	-0.14	3.88
103	Benzaldehyde	1.043	1.044	-0.1	157	-0.13	3.39
104	Acenaphthene-d10a	1.000	1.000	0.0	168	-0.15	8.31
105	Atrazine	0.124	0.168	-35.5#	203	-0.15	10.37
106	1,2,4,5-Tetrachlorobenzen	0.639	0.665	-4.1	181	-0.16	7.00
107	Chrysene-d12a	1.000	1.000	0.0	193	-0.12	14.03
108	Benzidine	0.577	0.589	-2.1	187	-0.13	12.59

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2p15080.D  M2P691.M         Fri Sep 07 13:29:22 2012   RPT1
```

8.7.14

8

New Jersey

ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 09/12/12 17:27

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 12 18:01:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Sep 10 08:48:58 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.895	152	242624	40.00	ppb	0.00
24) Naphthalene-d8	5.617	136	887435	40.00	ppb	0.00
47) Acenaphthene-d10	8.324	164	504321	40.00	ppb	0.01
69) Phenanthrene-d10	10.640	188	776511	40.00	ppb	0.02
83) Chrysene-d12	14.047	240	803848	40.00	ppb	0.01
92) Perylene-d12	15.427	264	788339	40.00	ppb	0.02
102) 1,4-Dichlorobenzene-d4a	3.895	152	242624	40.00	ppb	0.00
104) Acenaphthene-d10a	8.324	164	504321	40.00	ppb	0.01
107) Chrysene-d12a	14.047	240	803848	40.00	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.617	112	237577	29.91	ppb	0.01
Spiked Amount 50.000			Recovery	=	59.82%	
8) Phenol-d5	3.580	99	297929	32.38	ppb	0.02
Spiked Amount 50.000			Recovery	=	64.76%	
25) Nitrobenzene-d5	4.644	82	215527	28.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	56.90%	
51) 2-Fluorobiphenyl	7.318	172	527145	31.81	ppb	0.01
Spiked Amount 50.000			Recovery	=	63.62%	
73) 2,4,6-Tribromophenol	9.597	330	100483	40.95	ppb	0.02
Spiked Amount 50.000			Recovery	=	81.90%	
85) Terphenyl-d14	12.908	244	772044	51.95	ppb	0.02
Spiked Amount 50.000			Recovery	=	103.90%	
Target Compounds						Qvalue
55) Dimethylphthalate	8.051	163	17013	1.09	ppb	97
56) Acenaphthylene	8.083	152	17544	0.74	ppb	96
59) Acenaphthene	8.372	153	13596	0.94	ppb	95
62) Dibenzofuran	8.629	168	9977	0.47	ppb	92
66) Fluorene	9.174	166	11697	0.73	ppb	93
77) Phenanthrene	10.672	178	281527	13.37	ppb	99
78) Anthracene	10.741	178	70444	3.36	ppb	96
79) Carbazole	11.052	167	23352	1.15	ppb	98
81) Fluoranthene	12.389	202	497616	21.56	ppb	97
84) Pyrene	12.656	202	502111	19.35	ppb	99
88) Benzo[a]anthracene	14.031	228	233078	10.36	ppb	97
90) Chrysene	14.074	228	237398	11.14	ppb	98
91) bis(2-Ethylhexyl)phtha...	14.191	149	32234	2.12	ppb	97
94) Benzo[b]fluoranthene	15.095	252	232991m	9.47	ppb	
95) Benzo[k]fluoranthene	15.101	252	188254m	8.24	ppb	
96) Benzo[a]pyrene	15.373	252	219687	9.78	ppb	96
97) Indeno[1,2,3-cd]pyrene	16.416	276	161010	6.40	ppb	95
99) Dibenz[a,h]anthracene	16.422	278	58601	2.86	ppb	93
101) Benzo[g,h,i]perylene	16.689	276	159174	7.43	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

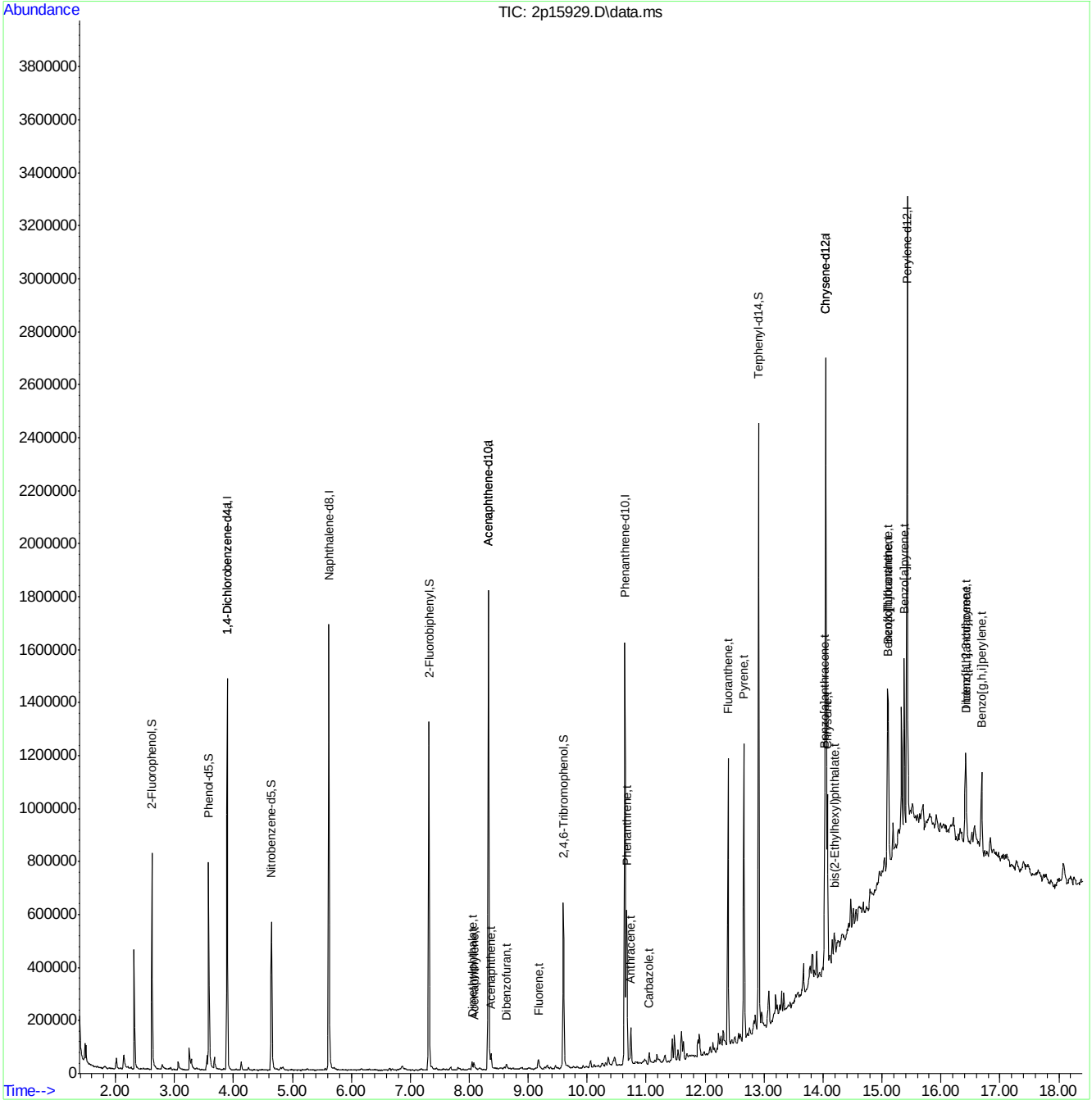
9.1.1

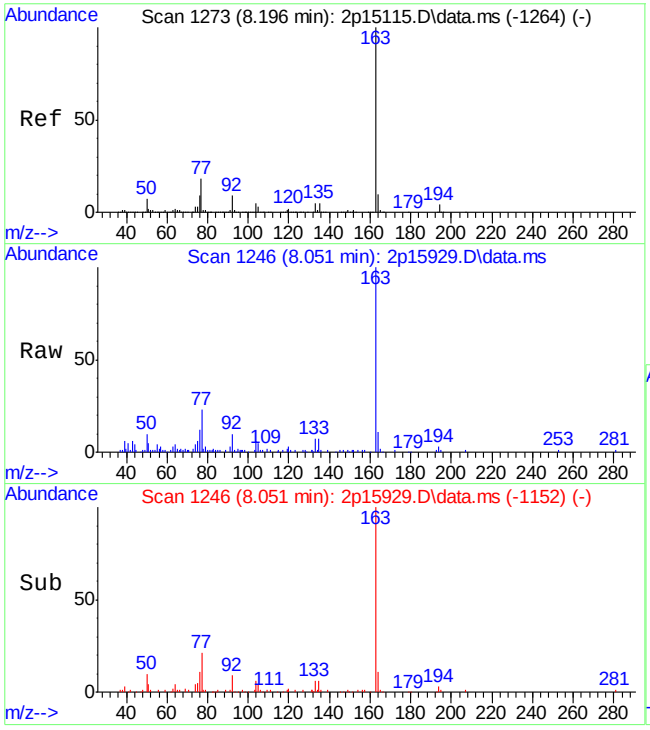
9

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 12 18:01:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Sep 10 08:48:58 2012
Response via : Initial Calibration

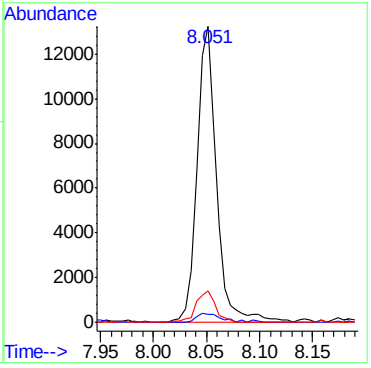


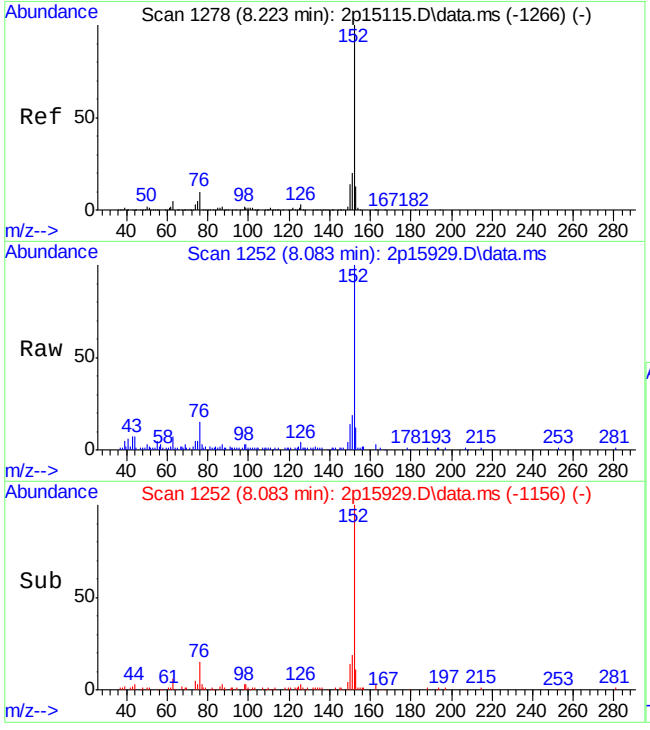


#55
Dimethylphthalate
Concen: 1.09 ppb
RT: 8.051 min Scan# 1246
Delta R.T. 0.005 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:163 Resp: 17013

Ion	Ratio	Lower	Upper
163	100		
194	2.8	0.0	33.9
164	10.6	0.0	39.4

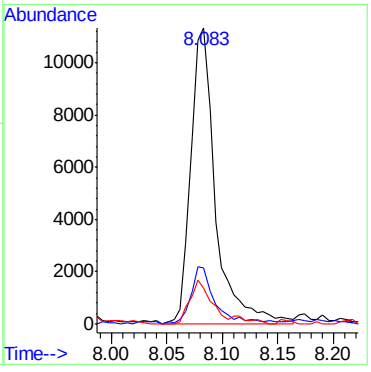


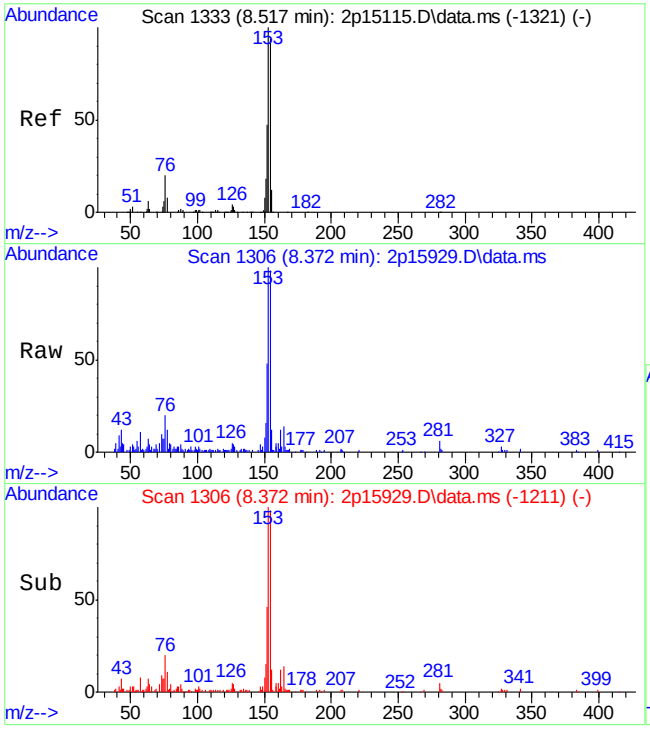


#56
Acenaphthylene
Concen: 0.74 ppb
RT: 8.083 min Scan# 1252
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:152 Resp: 17544

Ion	Ratio	Lower	Upper
152	100		
151	17.8	0.0	49.6
153	11.6	0.0	42.9

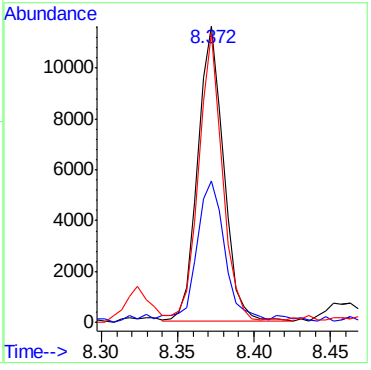


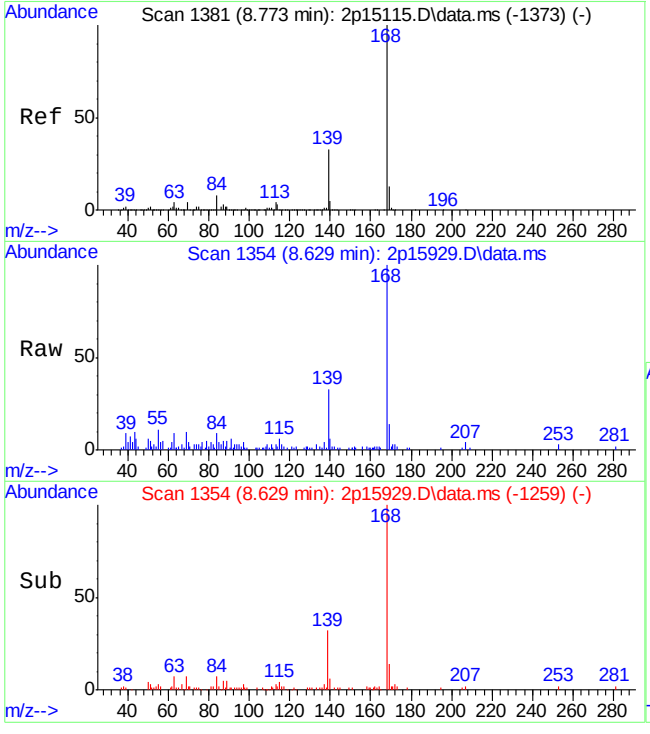


#59
Acenaphthene
Concen: 0.94 ppb
RT: 8.372 min Scan# 1306
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:153 Resp: 13596

Ion	Ratio	Lower	Upper
153	100		
152	46.5	18.5	78.5
154	96.2	60.9	120.9

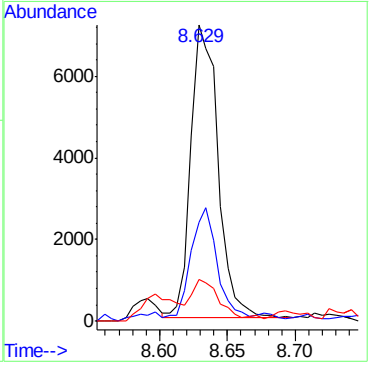


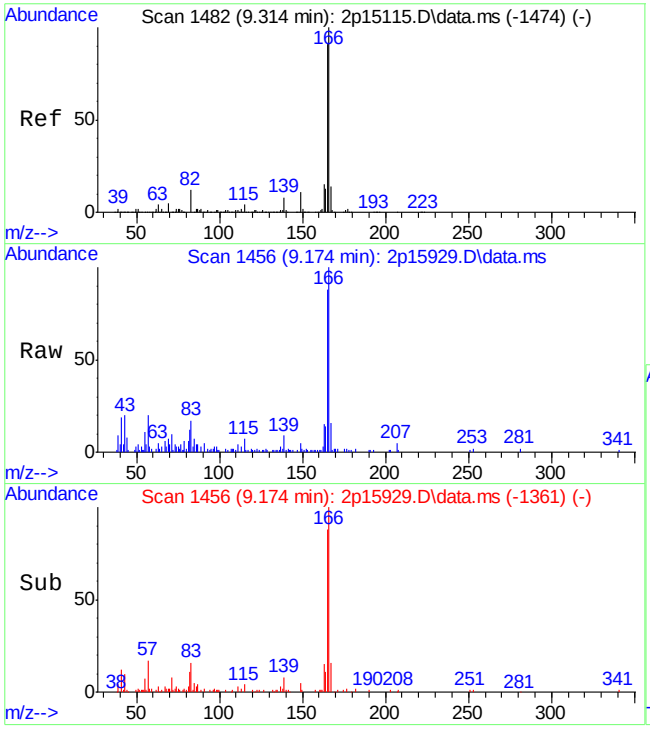


#62
Dibenzofuran
Concen: 0.47 ppb
RT: 8.629 min Scan# 1354
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:168 Resp: 9977

Ion	Ratio	Lower	Upper
168	100		
139	32.9	6.3	66.3
169	9.2	0.0	44.2

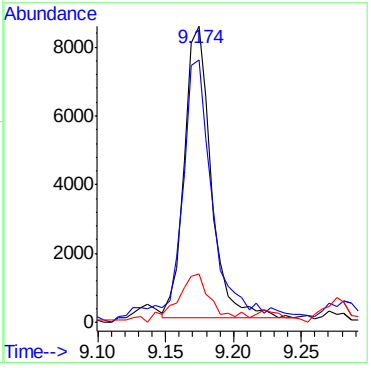


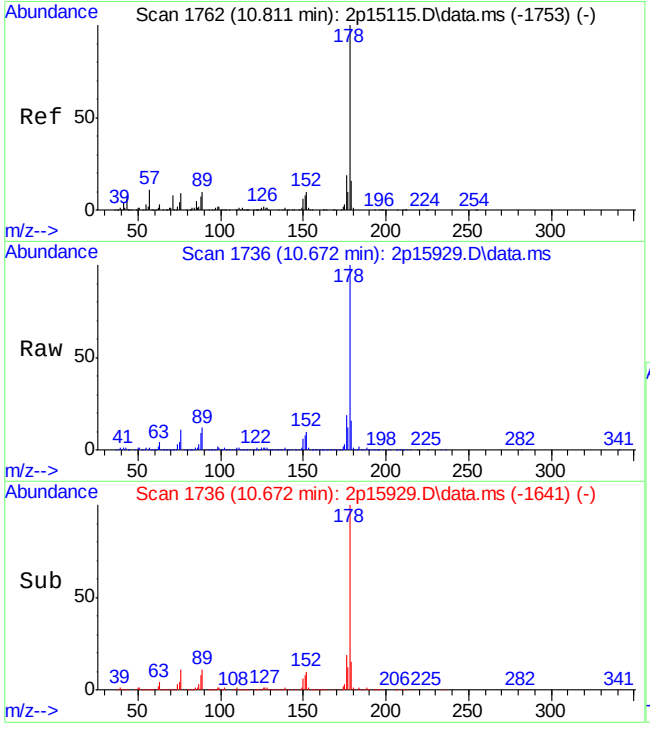


#66
Fluorene
Concen: 0.73 ppb
RT: 9.174 min Scan# 1456
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:166 Resp: 11697

Ion	Ratio	Lower	Upper
166	100		
165	87.4	65.2	125.2
167	14.6	0.0	43.6

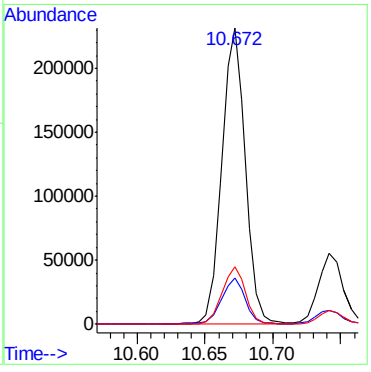


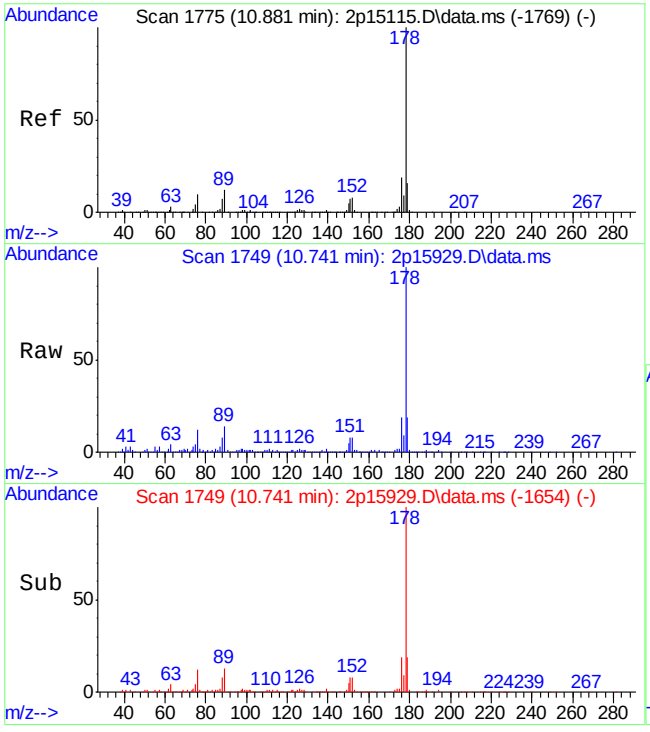


#77
Phenanthrene
Concen: 13.37 ppb
RT: 10.672 min Scan# 1736
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:178 Resp: 281527

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.2
176	19.2	0.0	49.5

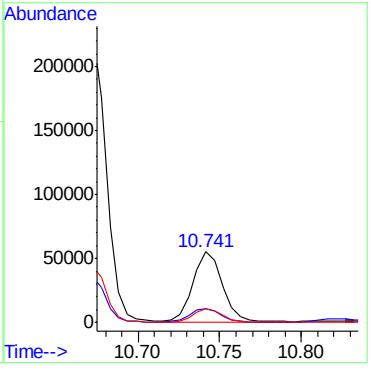


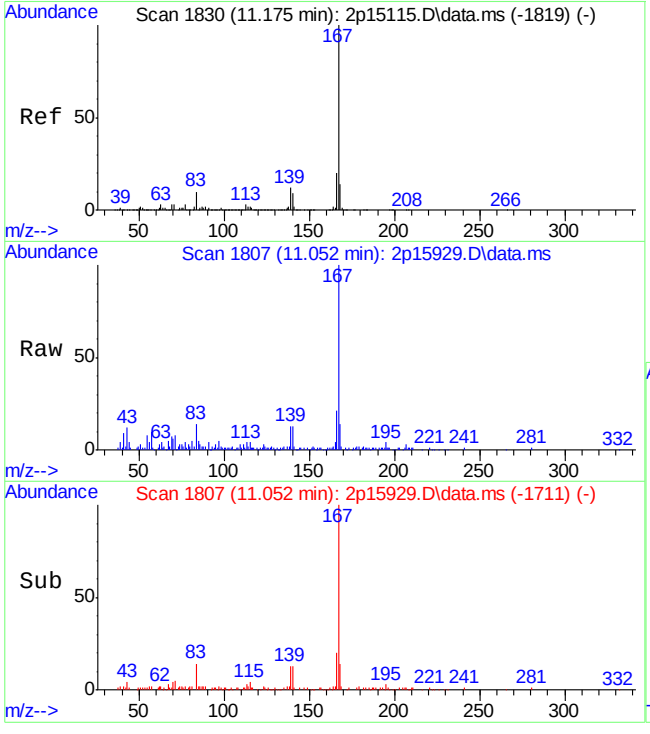


#78
Anthracene
Concen: 3.36 ppb
RT: 10.741 min Scan# 1749
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:178 Resp: 70444

Ion	Ratio	Lower	Upper
178	100		
179	18.9	0.0	45.3
176	18.4	0.0	48.5

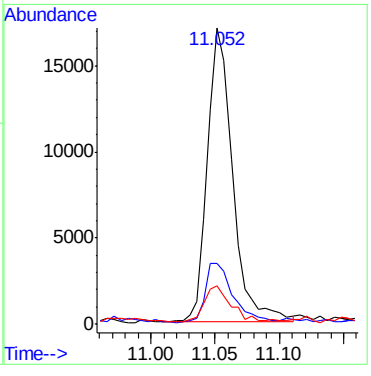




#79
Carbazole
Concen: 1.15 ppb
RT: 11.052 min Scan# 1807
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

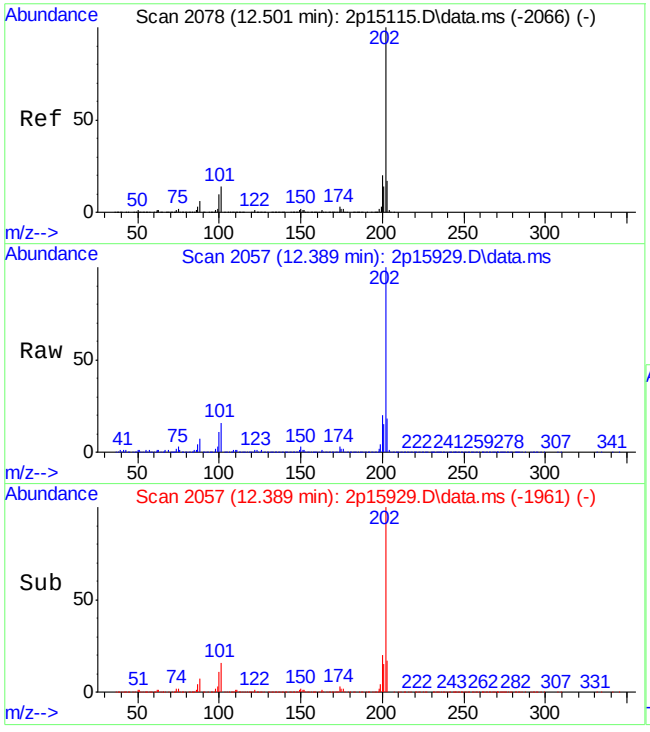
Tgt Ion:167 Resp: 23352

Ion	Ratio	Lower	Upper
167	100		
166	19.7	0.0	50.6
139	11.9	0.0	42.7



9.1.1

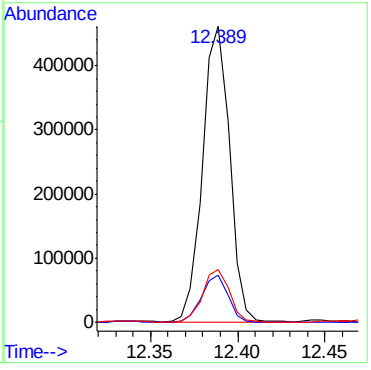
9

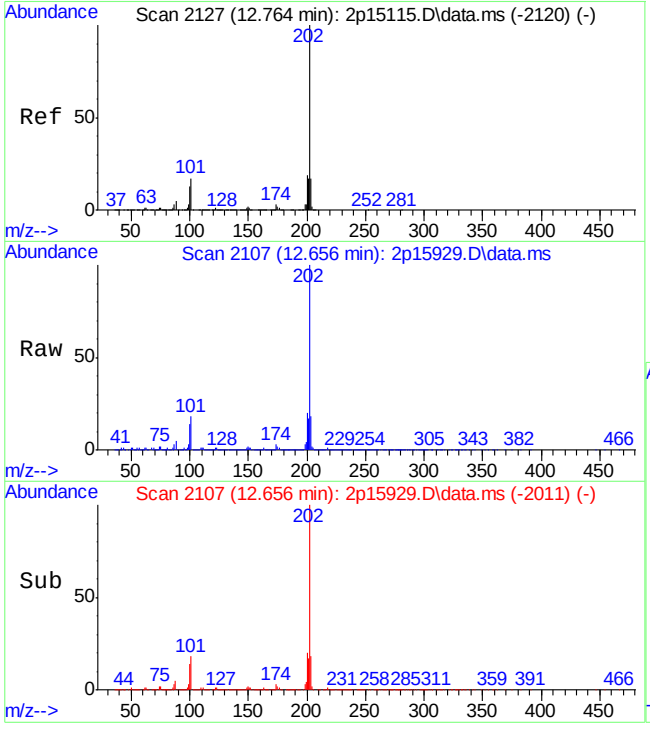


#81
Fluoranthene
Concen: 21.56 ppb
RT: 12.389 min Scan# 2057
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:202 Resp: 497616

Ion	Ratio	Lower	Upper
202	100		
101	16.0	0.0	44.3
203	17.7	0.0	47.1

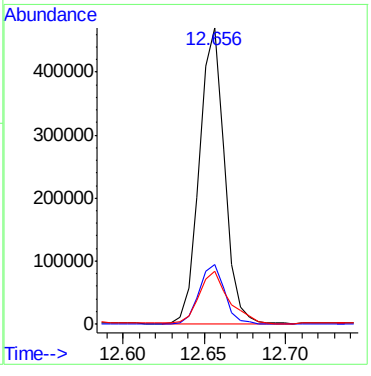


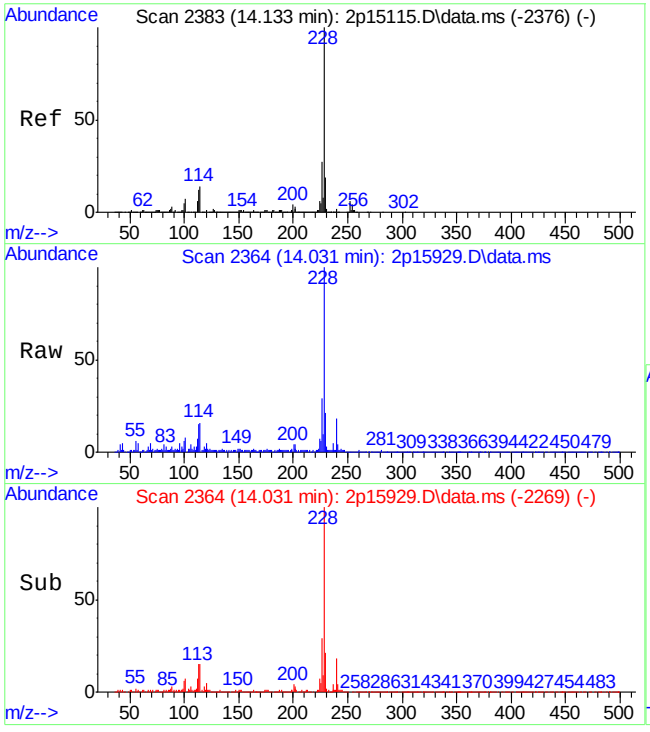


#84
Pyrene
Concen: 19.35 ppb
RT: 12.656 min Scan# 2107
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:202 Resp: 502111

Ion	Ratio	Lower	Upper
202	100		
200	20.1	0.0	50.7
203	17.7	0.0	47.6

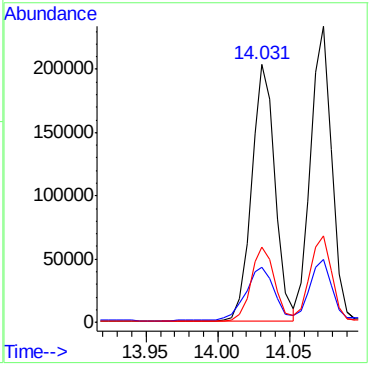


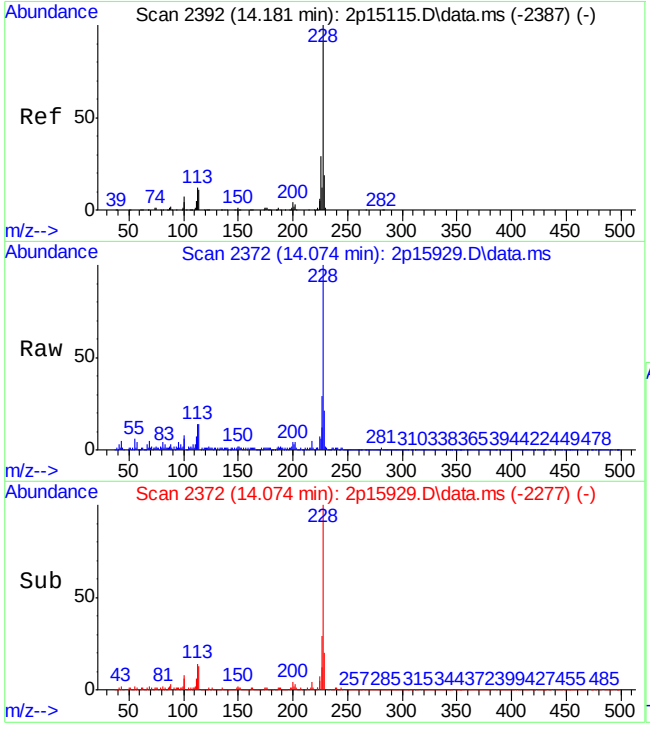


#88
Benzo[a]anthracene
Concen: 10.36 ppb
RT: 14.031 min Scan# 2364
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:228 Resp: 233078

Ion	Ratio	Lower	Upper
228	100		
229	20.2	0.0	49.3
226	28.7	0.0	56.6

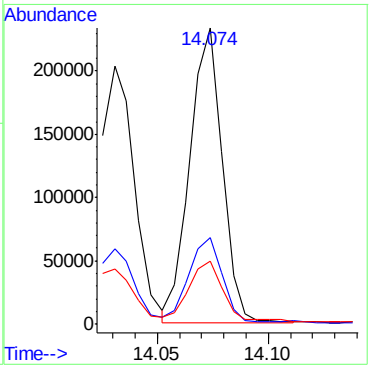


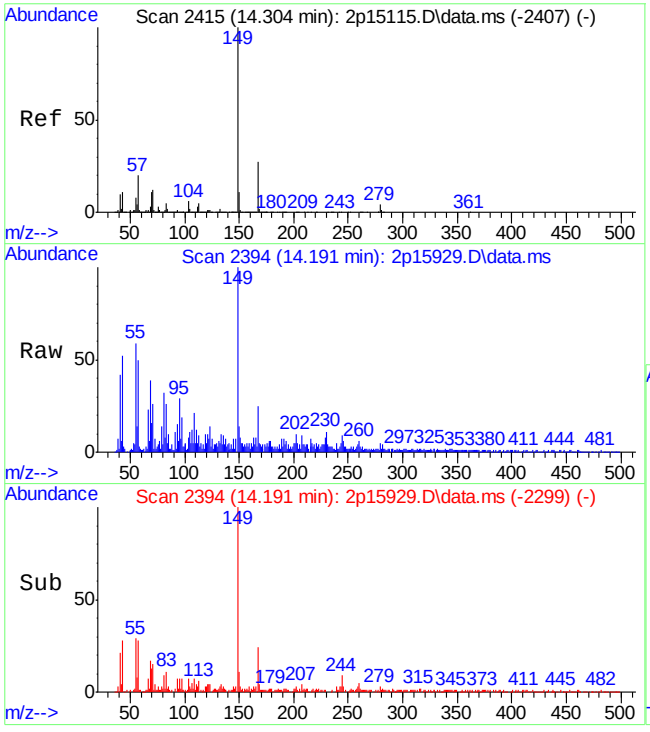


#90
Chrysene
Concen: 11.14 ppb
RT: 14.074 min Scan# 2372
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:228 Resp: 237398

Ion	Ratio	Lower	Upper
228	100		
226	28.5	0.0	59.0
229	20.0	0.0	48.3

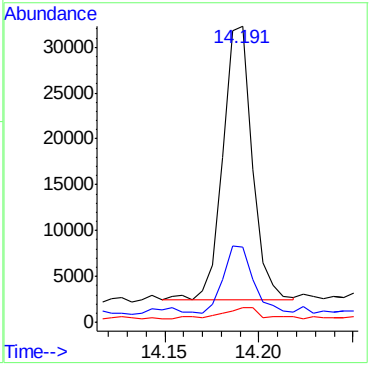


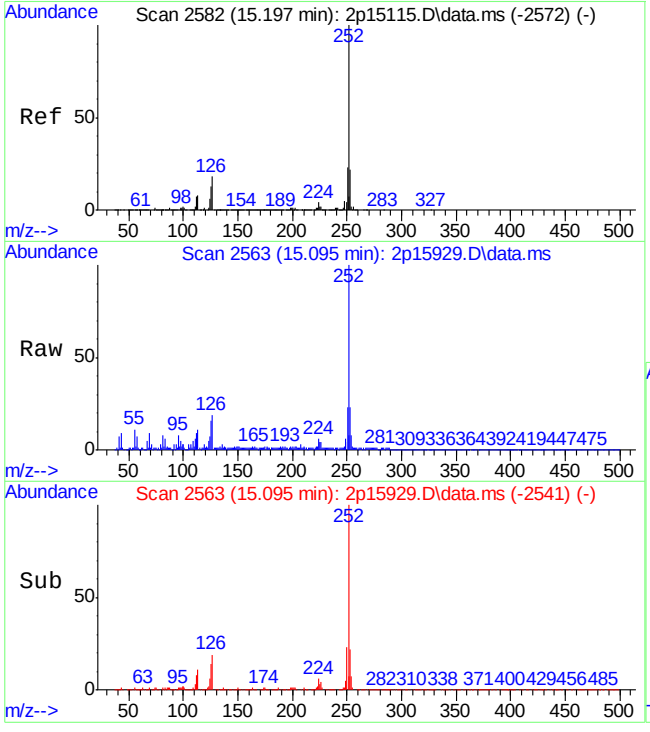


#91
bis(2-Ethylhexyl)phthalate
Concen: 2.12 ppb
RT: 14.191 min Scan# 2394
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:149 Resp: 32234

Ion	Ratio	Lower	Upper
149	100		
167	23.3	0.0	54.8
279	3.5	0.0	33.9

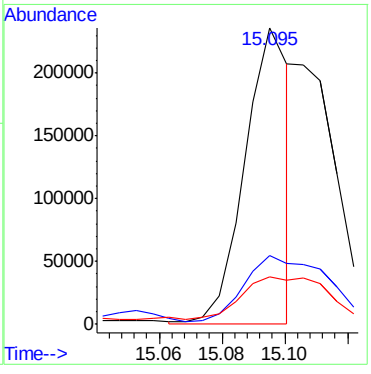




#94
Benzo[b]fluoranthene
Concen: 9.47 ppb m
RT: 15.095 min Scan# 2563
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

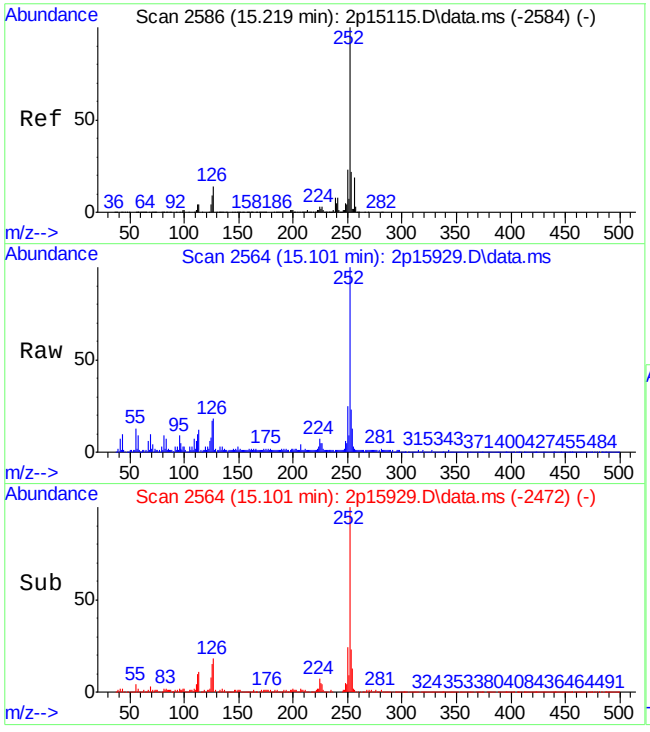
Tgt Ion:252 Resp: 232991

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	52.6
125	15.8	0.0	42.7



9.1.1

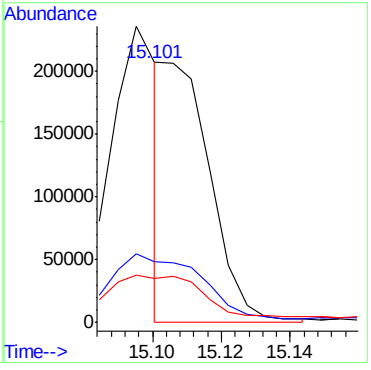
9

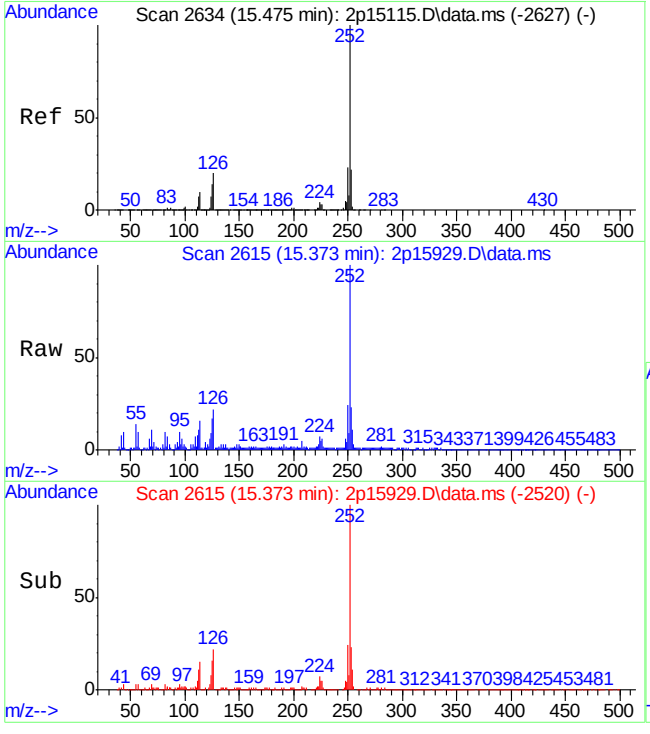


#95
Benzo[k]fluoranthene
Concen: 8.24 ppb m
RT: 15.101 min Scan# 2564
Delta R.T. -0.006 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:252 Resp: 188254

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	50.6
125	16.8	0.0	38.3

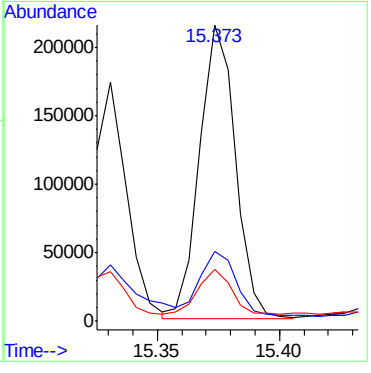


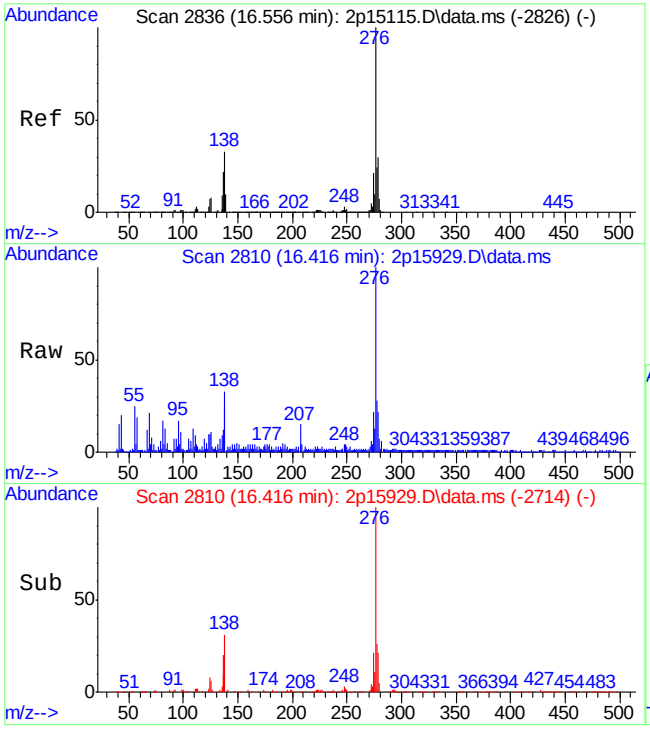


#96
Benzo[a]pyrene
Concen: 9.78 ppb
RT: 15.373 min Scan# 2615
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:252 Resp: 219687

Ion	Ratio	Lower	Upper
252	100		
253	19.7	0.0	51.6
125	15.2	0.0	43.5

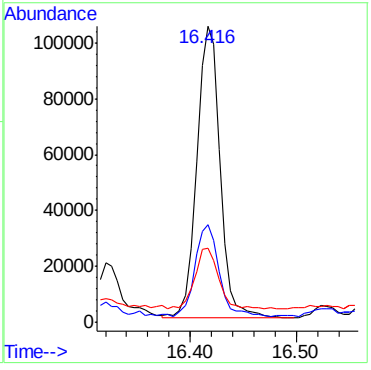


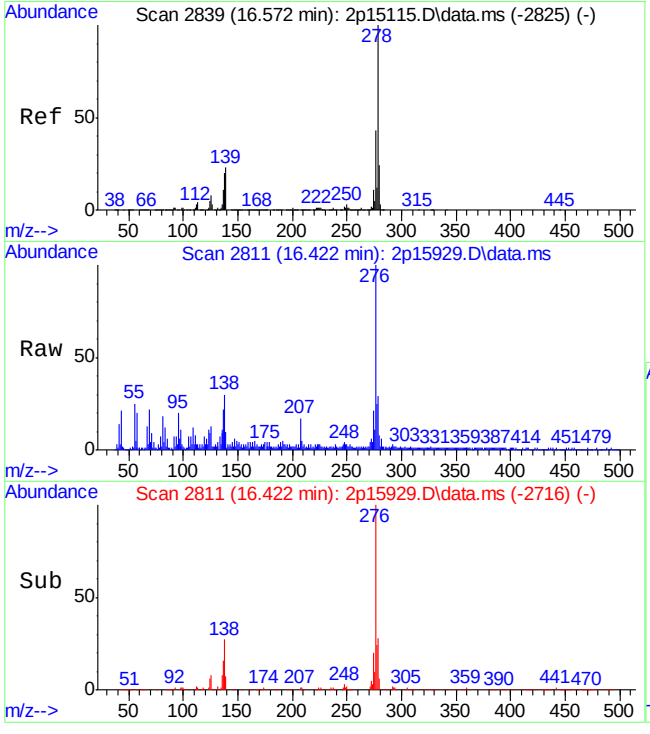


#97
Indeno[1,2,3-cd]pyrene
Concen: 6.40 ppb
RT: 16.416 min Scan# 2810
Delta R.T. 0.016 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:276 Resp: 161010

Ion	Ratio	Lower	Upper
276	100		
138	31.2	4.1	64.1
137	20.2	0.0	52.7

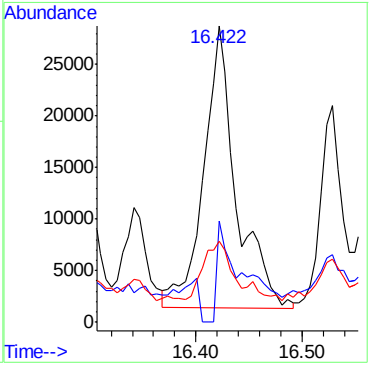


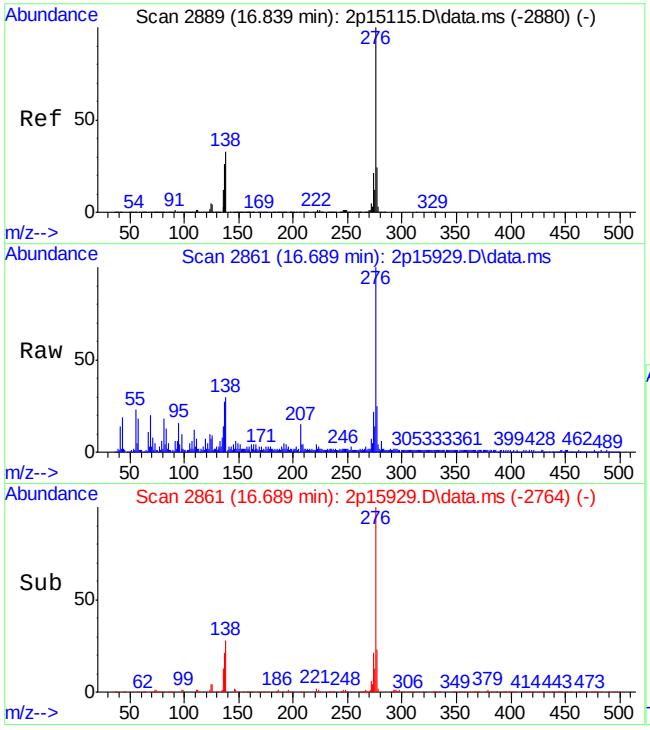


#99
Dibenz[a,h]anthracene
Concen: 2.86 ppb
RT: 16.422 min Scan# 2811
Delta R.T. 0.010 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:278 Resp: 58601

Ion	Ratio	Lower	Upper
278	100		
139	26.3	0.0	52.7
279	21.0	0.0	53.9

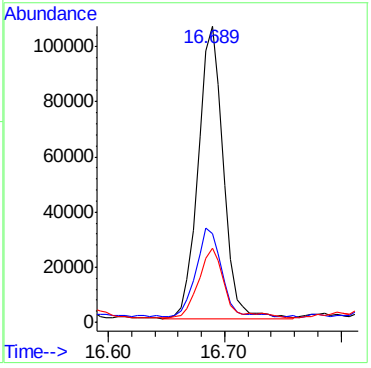




#101
Benzo[g,h,i]perylene
Concen: 7.43 ppb
RT: 16.689 min Scan# 2861
Delta R.T. 0.021 min
Lab File: 2p15929.D
Acq: 7 Sep 2012 6:55 pm

Tgt Ion:276 Resp: 159174

Ion	Ratio	Lower	Upper
276	100		
138	28.3	1.3	61.3
277	24.0	0.0	53.5



9.1.1

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p15929.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.483	13	18	20	rBV	62839	45983	1.26%	0.133%
2	1.499	20	21	41	rVB	77380	85087	2.34%	0.246%
3	1.686	54	56	63	rVB7	6973	10439	0.29%	0.030%
4	1.815	75	80	82	rBV4	9969	12381	0.34%	0.036%
5	1.831	82	83	91	rVB8	9377	8310	0.23%	0.024%
6	2.018	112	118	126	rBV2	42190	53678	1.47%	0.155%
7	2.136	134	140	151	rBV	52621	101511	2.79%	0.293%
8	2.210	151	154	160	rVV8	9462	14999	0.41%	0.043%
9	2.264	160	164	169	rVV2	6252	9443	0.26%	0.027%
10	2.317	170	174	190	rVB	450217	393970	10.81%	1.138%
11	2.467	198	202	212	rVB6	5176	9619	0.26%	0.028%
12	2.542	212	216	223	rVB9	4855	8234	0.23%	0.024%
13	2.617	223	230	248	rBV	815748	820748	22.53%	2.370%
14	2.793	258	263	276	rBV	17184	33874	0.93%	0.098%
15	2.938	288	290	295	rVB2	10213	8913	0.24%	0.026%
16	3.066	308	314	326	rBV	31857	48680	1.34%	0.141%
17	3.253	344	349	353	rBV	83511	96822	2.66%	0.280%
18	3.285	353	355	365	rVV	37093	51697	1.42%	0.149%
19	3.371	369	371	377	rVB4	5657	6629	0.18%	0.019%
20	3.553	399	405	407	rBV	55646	61746	1.69%	0.178%
21	3.580	407	410	425	rVV	779873	852157	23.39%	2.461%
22	3.676	425	428	441	rVV	44693	63073	1.73%	0.182%
23	3.751	441	442	453	rVB10	3844	6499	0.18%	0.019%
24	3.836	453	458	462	rBV8	5188	6692	0.18%	0.019%
25	3.895	462	469	490	rVB	1477861	1442201	39.59%	4.165%
26	4.131	507	513	525	rVB	33964	43427	1.19%	0.125%
27	4.259	529	537	541	rBV2	11237	15440	0.42%	0.045%
28	4.355	551	555	567	rVB2	3853	9681	0.27%	0.028%
29	4.644	601	609	624	rBV	558794	646964	17.76%	1.868%
30	4.799	631	638	642	rBV5	11665	16933	0.46%	0.049%
31	4.837	642	645	653	rVB3	10446	17216	0.47%	0.050%
32	4.986	669	673	681	rVB3	3839	7475	0.21%	0.022%
33	5.168	701	707	712	rBV9	4917	8459	0.23%	0.024%
34	5.243	712	721	727	rVB9	4285	10342	0.28%	0.030%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

35	5.559	773	780	783	rBV8	7225	8414	0.23%	0.024%
36	5.617	783	791	806	rBV	1681918	1877336	51.53%	5.421%
37	5.714	806	809	816	rVB8	9330	14365	0.39%	0.041%
38	6.168	887	894	903	rVB8	4969	10803	0.30%	0.031%
39	6.302	916	919	929	rVB8	4452	7081	0.19%	0.020%
40	6.644	978	983	988	rBV4	9756	14727	0.40%	0.043%
41	6.693	988	992	996	rBV7	6452	10539	0.29%	0.030%
42	6.821	1005	1016	1017	rBV7	5702	13566	0.37%	0.039%
43	6.858	1017	1023	1030	rVV6	13787	30102	0.83%	0.087%
44	7.318	1102	1109	1124	rBV	1315731	1567961	43.04%	4.528%
45	7.441	1129	1132	1138	rVB8	7976	10782	0.30%	0.031%
46	7.682	1170	1177	1183	rBV4	13042	22766	0.62%	0.066%
47	7.810	1194	1201	1204	rBV4	12321	16704	0.46%	0.048%
48	7.837	1204	1206	1213	rVB7	6538	8753	0.24%	0.025%
49	7.891	1213	1216	1226	rVB7	3672	7107	0.20%	0.021%
50	7.982	1226	1233	1241	rBV7	6384	18002	0.49%	0.052%
51	8.051	1241	1246	1249	rBV	28666	37744	1.04%	0.109%
52	8.078	1249	1251	1264	rVB	25217	38291	1.05%	0.111%
53	8.174	1264	1269	1277	rVB	6982	12323	0.34%	0.036%
54	8.324	1288	1297	1303	rBV	1809193	2183041	59.93%	6.304%
55	8.372	1303	1306	1315	rVB2	56098	74103	2.03%	0.214%
56	8.527	1328	1335	1342	rBV2	4307	10655	0.29%	0.031%
57	8.591	1342	1347	1351	rBV7	6380	11257	0.31%	0.033%
58	8.634	1351	1355	1362	rVB	17160	24888	0.68%	0.072%
59	8.741	1370	1375	1379	rVB8	4597	7592	0.21%	0.022%
60	8.869	1395	1399	1402	rBV6	5669	8970	0.25%	0.026%
61	9.009	1418	1425	1434	rVB6	6304	15653	0.43%	0.045%
62	9.169	1440	1455	1467	rBV2	37970	85191	2.34%	0.246%
63	9.276	1468	1475	1479	rBV10	8264	14406	0.40%	0.042%
64	9.319	1479	1483	1490	rVB9	13306	27826	0.76%	0.080%
65	9.378	1490	1494	1498	rBV6	6706	8795	0.24%	0.025%
66	9.463	1505	1510	1514	rBV2	14634	21307	0.58%	0.062%
67	9.597	1523	1535	1544	rBV	625481	837246	22.98%	2.418%
68	9.661	1544	1547	1560	rVB	10755	25251	0.69%	0.073%
69	9.763	1563	1566	1572	rVB7	6317	10475	0.29%	0.030%
70	9.827	1575	1578	1583	rVB6	6489	9855	0.27%	0.028%
71	9.928	1593	1597	1601	rBV2	11113	13038	0.36%	0.038%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

72	9.987	1601	1608	1615	rBV2	4706	12088	0.33%	0.035%
73	10.062	1615	1622	1627	rBV2	26292	41173	1.13%	0.119%
74	10.116	1627	1632	1637	rBV8	8794	13370	0.37%	0.039%
75	10.196	1643	1647	1651	rVB7	9886	13383	0.37%	0.039%
76	10.255	1651	1658	1664	rBV10	14714	37045	1.02%	0.107%
77	10.314	1664	1669	1673	rBV8	13517	19475	0.53%	0.056%
78	10.356	1673	1677	1688	rVB4	33780	58350	1.60%	0.169%
79	10.469	1688	1698	1704	rBV4	31287	74281	2.04%	0.215%
80	10.640	1721	1730	1733	rBV2	1596140	2105875	57.81%	6.081%
81	10.672	1733	1736	1741	rVB	568424	647934	17.79%	1.871%
82	10.741	1741	1749	1757	rVB	136313	203315	5.58%	0.587%
83	10.827	1760	1765	1770	rBV9	7754	12588	0.35%	0.036%
84	10.977	1781	1793	1801	rVB8	18732	55168	1.51%	0.159%
85	11.052	1801	1807	1818	rBV	44174	75843	2.08%	0.219%
86	11.148	1818	1825	1828	rBV9	10030	17818	0.49%	0.051%
87	11.180	1828	1831	1835	rBV4	25838	30772	0.84%	0.089%
88	11.218	1836	1838	1847	rVB9	12951	21154	0.58%	0.061%
89	11.319	1847	1857	1864	rVB4	27188	56146	1.54%	0.162%
90	11.378	1864	1868	1871	rBV6	5350	6620	0.18%	0.019%
91	11.410	1871	1874	1876	rBV4	9464	10512	0.29%	0.030%
92	11.442	1876	1880	1884	rBV	83835	98432	2.70%	0.284%
93	11.480	1884	1887	1894	rVB	95347	111792	3.07%	0.323%
94	11.538	1894	1898	1903	rVB	38718	47155	1.29%	0.136%
95	11.597	1903	1909	1913	rBV3	108532	177833	4.88%	0.514%
96	11.635	1913	1916	1922	rVB	70243	82371	2.26%	0.238%
97	11.688	1922	1926	1931	rBV6	23588	41458	1.14%	0.120%
98	11.736	1931	1935	1937	rBV2	6455	7234	0.20%	0.021%
99	11.774	1937	1942	1945	rBV7	6594	10146	0.28%	0.029%
100	11.881	1958	1962	1963	rBV	67153	76863	2.11%	0.222%
101	11.902	1963	1966	1973	rVB2	78763	96008	2.64%	0.277%
102	11.982	1979	1981	1985	rVV5	11499	12387	0.34%	0.036%
103	12.084	1994	2000	2005	rBV3	29876	55390	1.52%	0.160%
104	12.132	2005	2009	2012	rVV2	40726	44995	1.24%	0.130%
105	12.228	2018	2027	2030	rBV	74364	114923	3.15%	0.332%
106	12.266	2031	2034	2037	rVV3	46007	52406	1.44%	0.151%
107	12.309	2037	2042	2051	rVV2	60903	113325	3.11%	0.327%
108	12.389	2051	2057	2065	rBV	1081121	1185046	32.53%	3.422%
109	12.453	2065	2069	2073	rBV3	17504	25272	0.69%	0.073%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On : 7 Sep 2012 6:55 pm
Operator : andrews1
Sample : jb15113-4r
Misc : op59504,e2p721,35.1,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

110	12.501	2073	2078	2084	rBV5	25636	43834	1.20%	0.127%
111	12.571	2087	2091	2093	rBV	35712	40539	1.11%	0.117%
112	12.597	2093	2096	2101	rVB6	30528	34127	0.94%	0.099%
113	12.656	2101	2107	2114	rBV	1124292	1378997	37.85%	3.982%
114	12.715	2114	2118	2122	rBV7	14543	24191	0.66%	0.070%
115	12.753	2122	2125	2131	rBV2	31366	47784	1.31%	0.138%
116	12.827	2133	2139	2140	rBV2	54940	75338	2.07%	0.218%
117	12.854	2141	2144	2147	rVB3	55056	63703	1.75%	0.184%
118	12.908	2148	2154	2160	rBV	2287642	2262020	62.09%	6.532%
119	12.961	2160	2164	2172	rVB2	51782	72423	1.99%	0.209%
120	13.079	2178	2186	2192	rBV2	141080	274663	7.54%	0.793%
121	13.197	2198	2208	2211	rBV	102574	191005	5.24%	0.552%
122	13.266	2217	2221	2224	rVV6	32430	36785	1.01%	0.106%
123	13.298	2224	2227	2230	rVV2	76514	67468	1.85%	0.195%
124	13.330	2230	2233	2237	rVV	69229	68202	1.87%	0.197%
125	13.539	2270	2272	2274	rBV3	18270	13758	0.38%	0.040%
126	13.667	2289	2296	2301	rBV	121792	185122	5.08%	0.535%
127	13.780	2309	2317	2320	rBV3	83129	180231	4.95%	0.520%
128	13.812	2320	2323	2328	rVV2	112497	198984	5.46%	0.575%
129	13.886	2334	2337	2342	rVB	102717	120414	3.31%	0.348%
130	13.993	2353	2357	2359	rBV4	29323	40606	1.11%	0.117%
131	14.047	2359	2367	2376	rVV2	2310003	3642942	100.00%	10.520%
132	14.154	2384	2387	2390	rBV2	87239	105811	2.90%	0.306%
133	14.191	2390	2394	2399	rVV2	94772	154288	4.24%	0.446%
134	14.250	2400	2405	2412	rVV7	44626	128434	3.53%	0.371%
135	14.325	2413	2419	2422	rBV3	45962	102385	2.81%	0.296%
136	14.469	2442	2446	2450	rVB	105169	127260	3.49%	0.368%
137	14.507	2450	2453	2458	rBV2	70253	101895	2.80%	0.294%
138	14.555	2459	2462	2467	rBV5	50530	71482	1.96%	0.206%
139	14.603	2468	2471	2472	rBV2	46808	45145	1.24%	0.130%
140	14.796	2503	2507	2509	rBV5	74329	99444	2.73%	0.287%
141	14.956	2535	2537	2541	rBV4	28166	36025	0.99%	0.104%
142	15.095	2558	2563	2574	rBV	677883	1334206	36.62%	3.853%
143	15.186	2576	2580	2585	rBV2	128210	169962	4.67%	0.491%
144	15.331	2602	2607	2611	rBV	472285	494481	13.57%	1.428%
145	15.373	2611	2615	2620	rVV2	630571	618290	16.97%	1.786%
146	15.427	2620	2625	2633	rBV	2364412	2576355	70.72%	7.440%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On    :  7 Sep 2012   6:55 pm
Operator  : andrews1
Sample    : jb15113-4r
Misc      : op59504,e2p721,35.1,,,1,1
ALS Vial  : 26   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 1000 Area counts
Start Thrs: 0.02                        Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method    : C:\MSDCHEM\1\METHODS\M2P691.M
Title     : Semi Volatile Extractables by GC/MS
```

147	16.416	2805	2810	2820	rVB2	334282	549068	15.07%	1.586%
148	16.566	2835	2838	2849	rVB4	72129	153669	4.22%	0.444%
149	16.689	2856	2861	2867	rVB	317222	492684	13.52%	1.423%
150	18.074	3117	3120	3131	rVB4	80077	191915	5.27%	0.554%

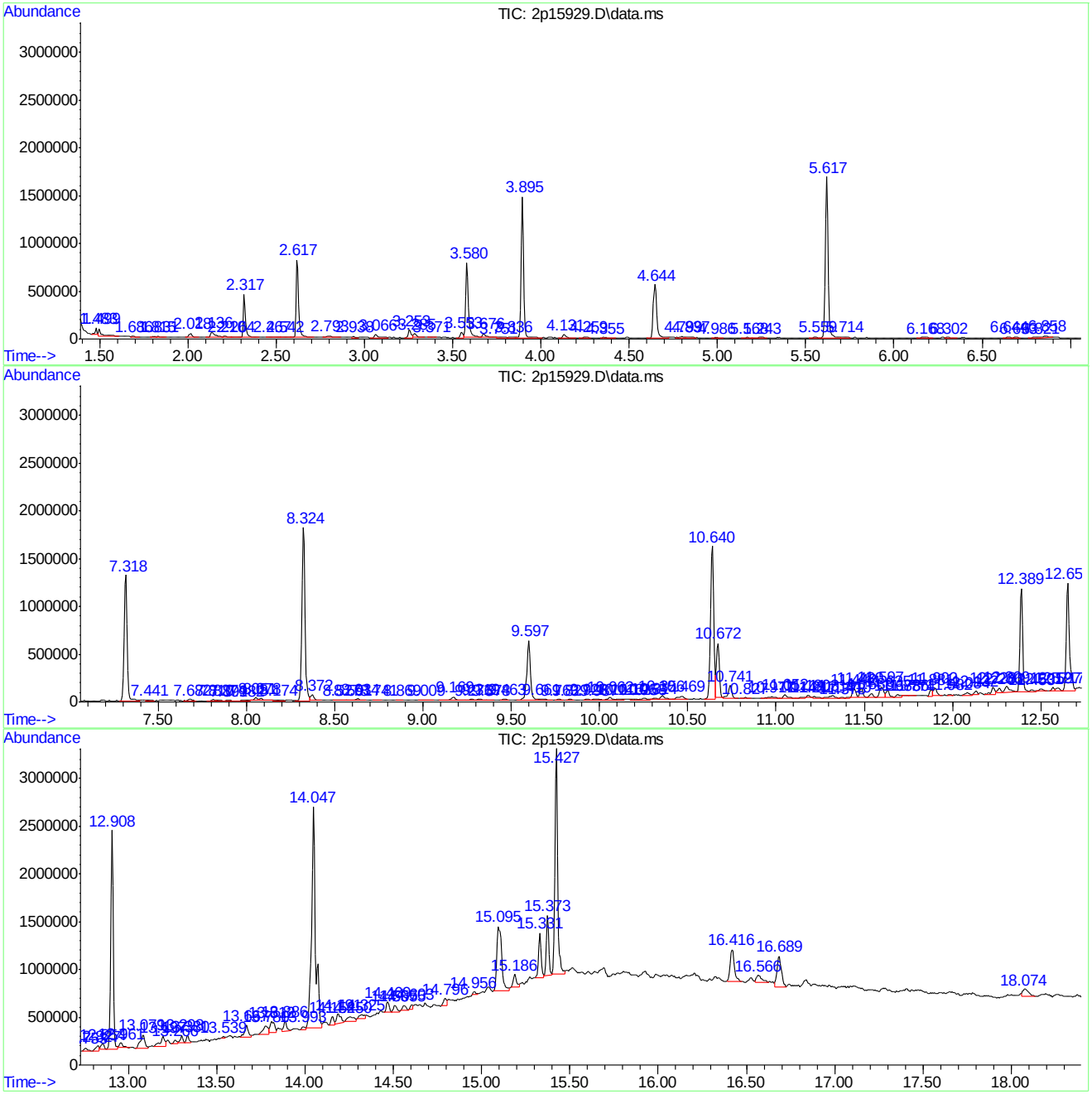
Sum of corrected areas: 34628118

9.1.2

9

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On    :  7 Sep 2012   6:55 pm
Operator  : andrews1
Sample    : jb15113-4r
Misc      : op59504,e2p721,35.1,,,1,1
ALS Vial  : 26   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\nist98.l
TIC Integration Parameters: rteint.p
```



Library Search Compound Report

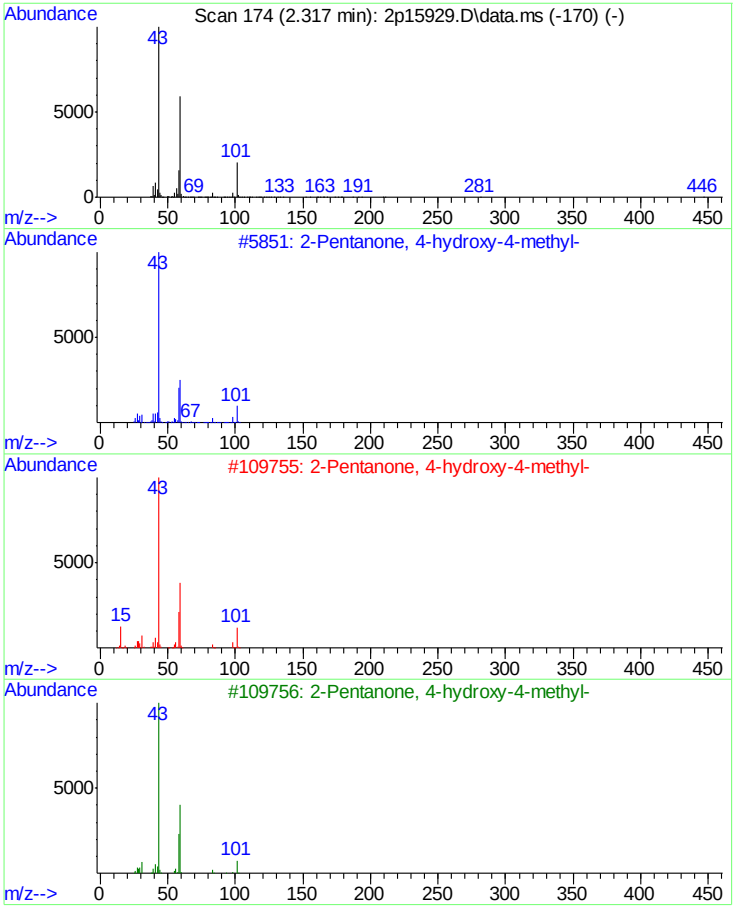
```
Data Path : C:\msdchem\1\DATA\2p721\
Data File : 2p15929.D
Acq On    :  7 Sep 2012   6:55 pm
Operator  : andrews1
Sample    : jb15113-4r
Misc      : op59504,e2p721,35.1,,,1,1
ALS Vial  : 26   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\nist98.l
TIC Integration Parameters: rteint.p
```

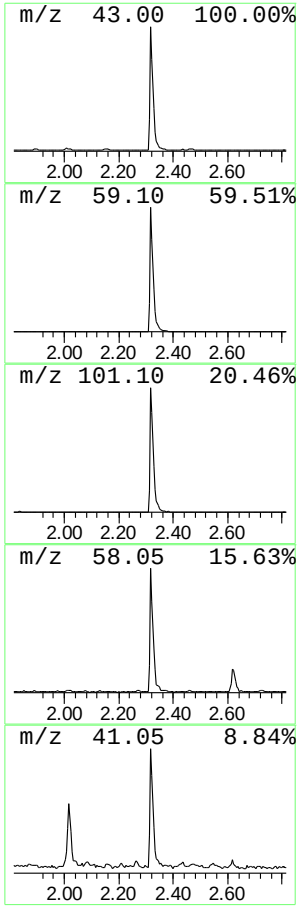
****

Peak Number 1 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.317	10.93 ppb	393970	1,4-Dichlorobenzene-d4	3.895

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2p721\
  Data File : 2p15929.D
  Acq On    :  7 Sep 2012   6:55 pm
  Operator  : andrews1
  Sample    : jb15113-4r
  Misc      : op59504,e2p721,35.1,,,1,1
  ALS Vial  : 26   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
  Quant Title  : Semi Volatile Extractables by GC/MS

  TIC Library   : C:\Database\nist98.l
  TIC Integration Parameters: rteint.p
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.317	10.9	ppb	393970	1	3.895	1442200	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 04 14:17:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 04 09:18:20 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.906	152	211037	40.00	ppb	0.00
24) Naphthalene-d8	5.628	136	762476	40.00	ppb	-0.01
47) Acenaphthene-d10	8.335	164	390117	40.00	ppb	-0.01
69) Phenanthrene-d10	10.640	188	637760	40.00	ppb	-0.02
83) Chrysene-d12	14.053	240	647661	40.00	ppb	-0.01
92) Perylene-d12	15.427	264	588838	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.906	152	211037	40.00	ppb	0.00
104) Acenaphthene-d10a	8.335	164	390117	40.00	ppb	-0.01
107) Chrysene-d12a	14.053	240	647661	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.623	112	199703	28.90	ppb	0.00
Spiked Amount 50.000			Recovery = 57.80%			
8) Phenol-d5	3.575	99	246114	30.76	ppb	-0.01
Spiked Amount 50.000			Recovery = 61.52%			
25) Nitrobenzene-d5	4.655	82	214375	32.94	ppb	-0.01
Spiked Amount 50.000			Recovery = 65.88%			
51) 2-Fluorobiphenyl	7.329	172	422207	32.94	ppb	-0.01
Spiked Amount 50.000			Recovery = 65.88%			
73) 2,4,6-Tribromophenol	9.602	330	76355	37.89	ppb	-0.01
Spiked Amount 50.000			Recovery = 75.78%			
85) Terphenyl-d14	12.913	244	686315	57.32	ppb	-0.01
Spiked Amount 50.000			Recovery = 114.64%			

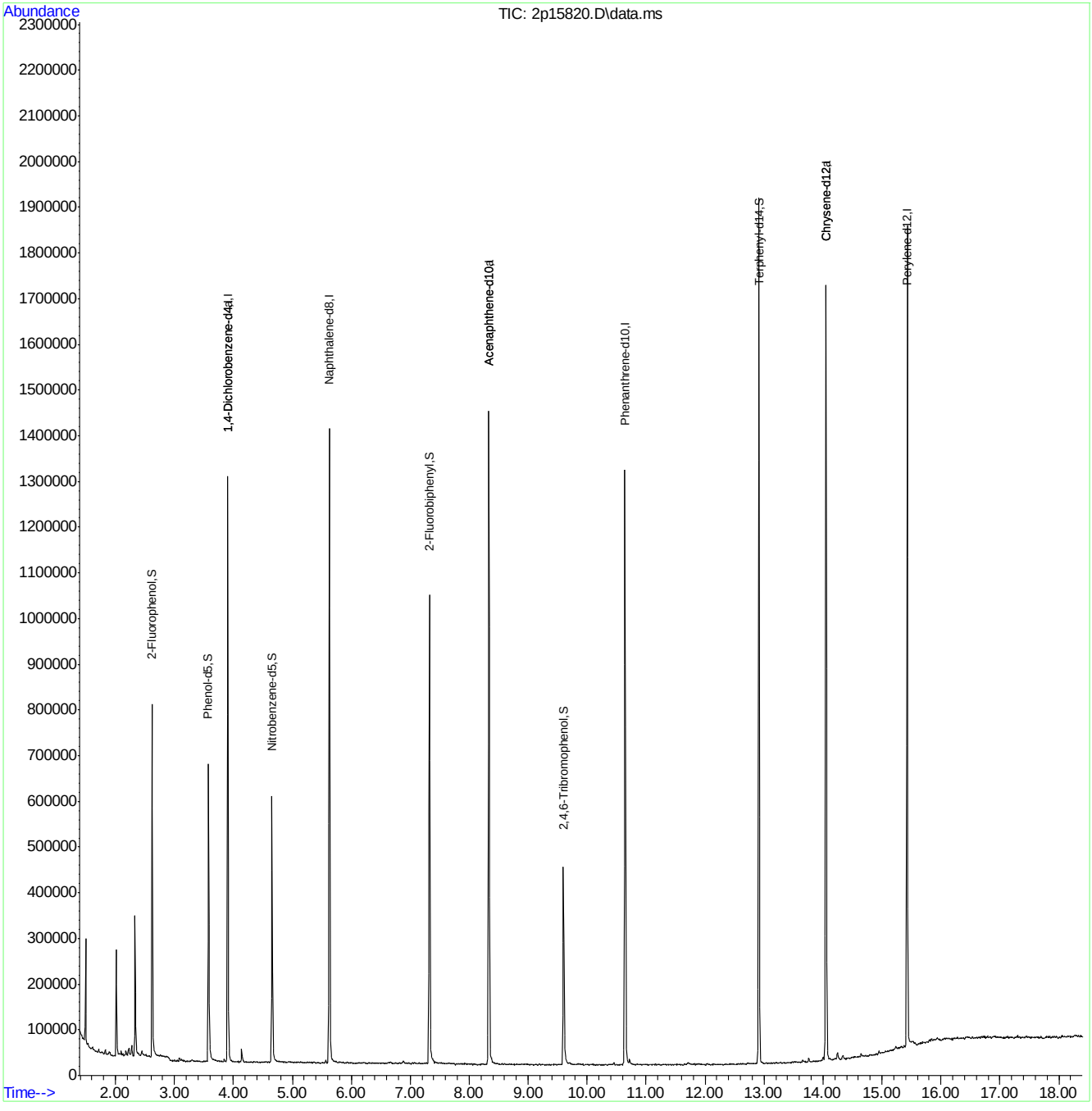
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 04 14:17:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 04 09:18:20 2012
Response via : Initial Calibration



M2P691.M Tue Sep 04 14:17:39 2012 RPT1 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p15820.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.494	16	20	25	rVB	231771	153959	7.76%	0.895%
2	1.612	40	42	51	rVB5	9693	15735	0.79%	0.091%
3	1.719	58	62	66	rVV2	9351	9184	0.46%	0.053%
4	1.767	70	71	78	rVV6	4977	6637	0.33%	0.039%
5	1.831	80	83	89	rVV2	10706	10882	0.55%	0.063%
6	1.895	91	95	106	rVB10	9784	20432	1.03%	0.119%
7	2.013	114	117	124	rBV	232340	180431	9.09%	1.049%
8	2.066	125	127	131	rVV5	4515	5577	0.28%	0.032%
9	2.098	131	133	136	rVB2	9172	7665	0.39%	0.045%
10	2.125	136	138	143	rVB4	5188	5981	0.30%	0.035%
11	2.179	145	148	152	rVB3	11123	10510	0.53%	0.061%
12	2.227	152	157	162	rBV4	15850	22168	1.12%	0.129%
13	2.280	162	167	171	rVB	23520	26302	1.33%	0.153%
14	2.328	173	176	184	rBV	308009	286911	14.46%	1.668%
15	2.451	193	199	207	rBV3	10662	16116	0.81%	0.094%
16	2.510	207	210	215	rVB6	5504	7245	0.37%	0.042%
17	2.623	226	231	253	rBV	772026	692198	34.88%	4.025%
18	2.879	277	279	288	rVB3	9794	19242	0.97%	0.112%
19	3.002	298	302	305	rBV5	2812	2658	0.13%	0.015%
20	3.050	309	311	315	rBV4	2909	3692	0.19%	0.021%
21	3.082	315	317	321	rBV4	7754	9932	0.50%	0.058%
22	3.115	321	323	329	rVB5	4245	5401	0.27%	0.031%
23	3.157	329	331	337	rVB6	3973	4944	0.25%	0.029%
24	3.222	342	343	349	rBV5	1911	3014	0.15%	0.018%
25	3.286	353	355	359	rBV5	3169	3197	0.16%	0.019%
26	3.430	380	382	388	rVB6	2733	4203	0.21%	0.024%
27	3.575	404	409	425	rBV	650539	692344	34.89%	4.025%
28	3.703	431	433	438	rVV6	2759	4258	0.21%	0.025%
29	3.740	439	440	445	rVB5	2060	2870	0.14%	0.017%
30	3.842	454	459	464	rVB7	5858	9174	0.46%	0.053%
31	3.906	464	471	486	rBV	1282180	1244392	62.71%	7.235%
32	4.142	510	515	523	rVV	30532	36988	1.86%	0.215%
33	4.211	523	528	530	rVV5	1947	2787	0.14%	0.016%
34	4.655	605	611	628	rBV	583808	641934	32.35%	3.732%

M2P691.M Tue Sep 04 14:17:58 2012 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

35	4.815	639	641	647	rVB6	3150	5238	0.26%	0.030%
36	4.874	648	652	654	rVB4	3532	4004	0.20%	0.023%
37	4.901	654	657	660	rBV4	3684	3599	0.18%	0.021%
38	5.003	672	676	678	rBV5	3140	3465	0.17%	0.020%
39	5.136	696	701	703	rBV6	2378	3451	0.17%	0.020%
40	5.265	721	725	728	rBV6	2752	2501	0.13%	0.015%
41	5.324	731	736	739	rVB5	2221	2940	0.15%	0.017%
42	5.372	739	745	747	rBV6	2240	3288	0.17%	0.019%
43	5.414	751	753	757	rBV5	1888	3056	0.15%	0.018%
44	5.489	765	767	776	rVB8	2100	4438	0.22%	0.026%
45	5.564	776	781	786	rBV7	6504	8977	0.45%	0.052%
46	5.628	786	793	808	rBV	1389478	1587923	80.02%	9.232%
47	5.714	808	809	813	rVV4	4376	4981	0.25%	0.029%
48	5.741	813	814	818	rVB3	3842	3025	0.15%	0.018%
49	5.864	833	837	841	rVB6	2660	2746	0.14%	0.016%
50	5.933	846	850	856	rBV9	3130	4686	0.24%	0.027%
51	5.987	856	860	864	rVB5	2869	3210	0.16%	0.019%
52	6.040	868	870	876	rVB6	2569	3050	0.15%	0.018%
53	6.222	902	904	907	rVB4	2430	2630	0.13%	0.015%
54	6.297	911	918	920	rBV7	2843	5676	0.29%	0.033%
55	6.629	973	980	982	rBV4	2942	4559	0.23%	0.027%
56	6.666	982	987	992	rVB9	3929	6257	0.32%	0.036%
57	6.810	1011	1014	1017	rBV5	2028	2859	0.14%	0.017%
58	6.885	1017	1028	1036	rVV7	7069	18073	0.91%	0.105%
59	6.971	1042	1044	1052	rVB8	2910	6547	0.33%	0.038%
60	7.030	1052	1055	1058	rBV4	3385	4297	0.22%	0.025%
61	7.078	1058	1064	1068	rBV8	3054	5592	0.28%	0.033%
62	7.270	1097	1100	1103	rBV5	2715	2613	0.13%	0.015%
63	7.329	1103	1111	1127	rBV	1025546	1253173	63.15%	7.286%
64	7.431	1127	1130	1132	rBV4	2517	3015	0.15%	0.018%
65	7.736	1186	1187	1192	rVB5	3047	4589	0.23%	0.027%
66	7.779	1192	1195	1196	rBV3	2837	2502	0.13%	0.015%
67	7.789	1196	1197	1201	rBV3	3113	3658	0.18%	0.021%
68	7.853	1204	1209	1212	rVB6	2572	3546	0.18%	0.021%
69	7.923	1220	1222	1228	rVB5	3401	3203	0.16%	0.019%
70	8.035	1241	1243	1247	rVB5	2567	3202	0.16%	0.019%
71	8.083	1247	1252	1254	rBV6	3455	4159	0.21%	0.024%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

72	8.335	1284	1299	1314	rBV	1431185	1705106	85.93%	9.914%
73	8.458	1320	1322	1330	rVB8	3209	6706	0.34%	0.039%
74	8.517	1330	1333	1337	rBV5	2845	3097	0.16%	0.018%
75	8.543	1337	1338	1346	rVV8	2114	2962	0.15%	0.017%
76	8.806	1381	1387	1391	rVB8	1872	3009	0.15%	0.017%
77	9.132	1447	1448	1454	rVB4	2163	3112	0.16%	0.018%
78	9.191	1454	1459	1463	rVB7	3176	5538	0.28%	0.032%
79	9.233	1463	1467	1468	rBV4	2781	2808	0.14%	0.016%
80	9.405	1496	1499	1503	rVB4	2628	3527	0.18%	0.021%
81	9.431	1503	1504	1508	rBV3	3137	3237	0.16%	0.019%
82	9.597	1529	1535	1549	rBV	432727	594486	29.96%	3.456%
83	9.704	1554	1555	1561	rVB5	4205	5393	0.27%	0.031%
84	9.929	1592	1597	1599	rVB4	2817	3691	0.19%	0.021%
85	10.314	1665	1669	1674	rVB6	2450	4492	0.23%	0.026%
86	10.373	1674	1680	1683	rBV8	2630	4969	0.25%	0.029%
87	10.458	1689	1696	1700	rVB6	6255	10661	0.54%	0.062%
88	10.640	1723	1730	1741	rBV2	1302776	1681542	84.74%	9.777%
89	10.715	1741	1744	1750	rVB2	10083	14184	0.71%	0.082%
90	10.849	1763	1769	1773	rBV9	3407	6979	0.35%	0.041%
91	10.902	1778	1779	1783	rVB4	2764	2658	0.13%	0.015%
92	10.945	1783	1787	1790	rBV5	2868	4330	0.22%	0.025%
93	11.127	1815	1821	1823	rBV7	1448	2603	0.13%	0.015%
94	11.159	1823	1827	1830	rVB5	2638	2578	0.13%	0.015%
95	11.453	1878	1882	1885	rBV5	2213	2593	0.13%	0.015%
96	11.651	1913	1919	1923	rBV8	3591	6218	0.31%	0.036%
97	11.715	1923	1931	1933	rVV8	3835	6886	0.35%	0.040%
98	11.822	1947	1951	1954	rVB4	3964	5115	0.26%	0.030%
99	12.020	1984	1988	1989	rBV4	3504	3076	0.16%	0.018%
100	12.106	2002	2004	2007	rBV3	1994	2854	0.14%	0.017%
101	12.630	2099	2102	2105	rVB5	2524	2613	0.13%	0.015%
102	12.667	2105	2109	2113	rVB5	2209	3508	0.18%	0.020%
103	12.715	2113	2118	2125	rBV5	3761	9475	0.48%	0.055%
104	12.913	2144	2155	2166	rBV	1894815	1984403	100.00%	11.538%
105	13.084	2182	2187	2189	rVB5	3097	3617	0.18%	0.021%
106	13.111	2189	2192	2194	rBV4	2801	3102	0.16%	0.018%
107	13.143	2194	2198	2203	rBV7	2407	4029	0.20%	0.023%
108	13.282	2218	2224	2226	rBV7	4361	6872	0.35%	0.040%
109	13.405	2241	2247	2250	rBV8	1811	3056	0.15%	0.018%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P691.M
Title : Semi Volatile Extractables by GC/MS

110	13.437	2250	2253	2257	rVB6	3008	4149	0.21%	0.024%
111	13.480	2257	2261	2262	rBV4	4117	4501	0.23%	0.026%
112	13.507	2262	2266	2270	rVV7	2608	4197	0.21%	0.024%
113	13.539	2270	2272	2279	rVV8	2217	3985	0.20%	0.023%
114	13.625	2286	2288	2290	rBV3	2518	2730	0.14%	0.016%
115	13.657	2290	2294	2296	rVV4	5279	6657	0.34%	0.039%
116	13.758	2306	2313	2321	rVV4	9294	15529	0.78%	0.090%
117	14.004	2354	2359	2362	rBV4	8350	11954	0.60%	0.070%
118	14.053	2362	2368	2377	rVV	1696108	1830299	92.23%	10.642%
119	14.111	2377	2379	2386	rVB8	3401	5199	0.26%	0.030%
120	14.245	2399	2404	2411	rVB4	14136	18104	0.91%	0.105%
121	14.336	2415	2421	2430	rBV4	10064	17717	0.89%	0.103%
122	14.390	2430	2431	2433	rBV2	3768	2761	0.14%	0.016%
123	14.507	2447	2453	2454	rBV6	2416	3545	0.18%	0.021%
124	14.523	2454	2456	2458	rBV3	3497	2661	0.13%	0.015%
125	14.646	2475	2479	2489	rBV3	7422	13257	0.67%	0.077%
126	14.710	2489	2491	2496	rBV6	3043	3535	0.18%	0.021%
127	14.796	2503	2507	2509	rBV5	3407	3288	0.17%	0.019%
128	14.823	2509	2512	2514	rBV3	3457	2659	0.13%	0.015%
129	14.860	2514	2519	2520	rBV5	3151	3196	0.16%	0.019%
130	14.946	2531	2535	2541	rBV8	9293	16657	0.84%	0.097%
131	15.165	2574	2576	2581	rBV5	3225	5143	0.26%	0.030%
132	15.235	2581	2589	2593	rBV5	10417	21680	1.09%	0.126%
133	15.320	2601	2605	2607	rBV5	4825	4900	0.25%	0.028%
134	15.379	2613	2616	2617	rBV3	5690	4557	0.23%	0.026%
135	15.427	2618	2625	2638	rBV	1797822	1820065	91.72%	10.582%
136	15.662	2668	2669	2672	rBV3	3559	3002	0.15%	0.017%
137	15.689	2672	2674	2676	rBV3	4093	2982	0.15%	0.017%
138	15.807	2690	2696	2698	rBV7	5724	8247	0.42%	0.048%
139	15.844	2699	2703	2706	rVV6	4461	6097	0.31%	0.035%
140	15.935	2717	2720	2724	rBV6	4906	6837	0.34%	0.040%
141	16.417	2807	2810	2811	rBV3	4171	3103	0.16%	0.018%
142	16.529	2827	2831	2835	rVB7	4180	6794	0.34%	0.040%
143	16.631	2849	2850	2852	rBV2	5280	3321	0.17%	0.019%
144	16.871	2892	2895	2896	rBV2	4940	4942	0.25%	0.029%
145	17.096	2935	2937	2941	rBV5	2846	3239	0.16%	0.019%
146	17.251	2963	2966	2967	rBV3	3520	2886	0.15%	0.017%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On    :  4 Sep 2012   9:55 am
Operator  : andrews1
Sample    : op59504-mb1
Misc      : op59504,e2p718,35.0,,,1,1
ALS Vial  : 4   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 1000 Area counts
Start Thrs: 0.02                          Max Peaks: 100
Stop Thrs : 0                         Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method    : C:\MSDCHEM\1\METHODS\M2P691.M
Title     : Semi Volatile Extractables by GC/MS
```

147	17.358	2985	2986	2989	rBV3	5063	4340	0.22%	0.025%
148	17.695	3043	3049	3050	rBV6	5427	8086	0.41%	0.047%
149	18.053	3112	3116	3120	rBV7	6468	8403	0.42%	0.049%
150	18.273	3153	3157	3161	rBV7	3619	5430	0.27%	0.032%

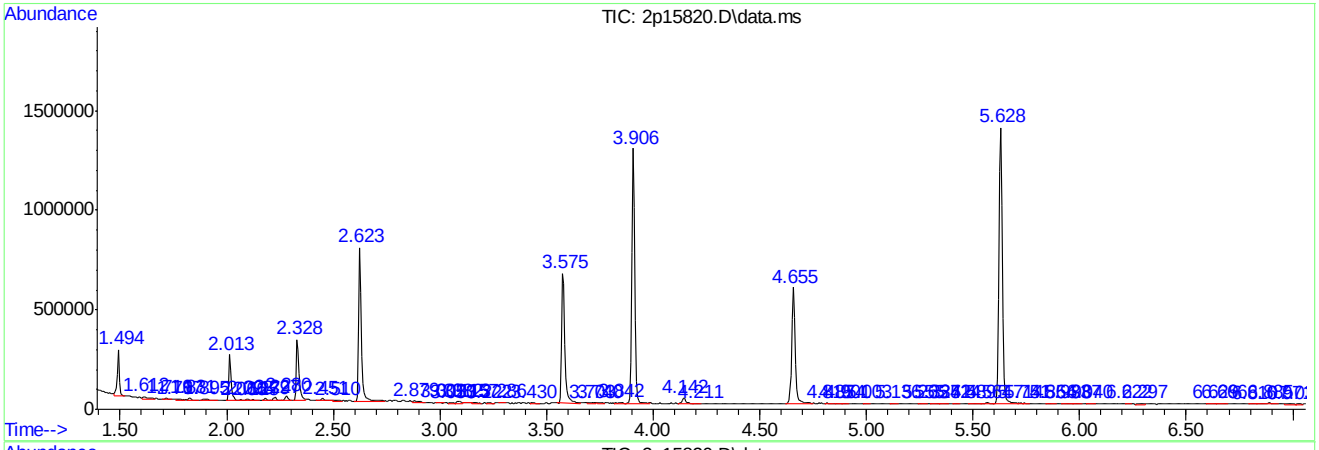
Sum of corrected areas: 17199410

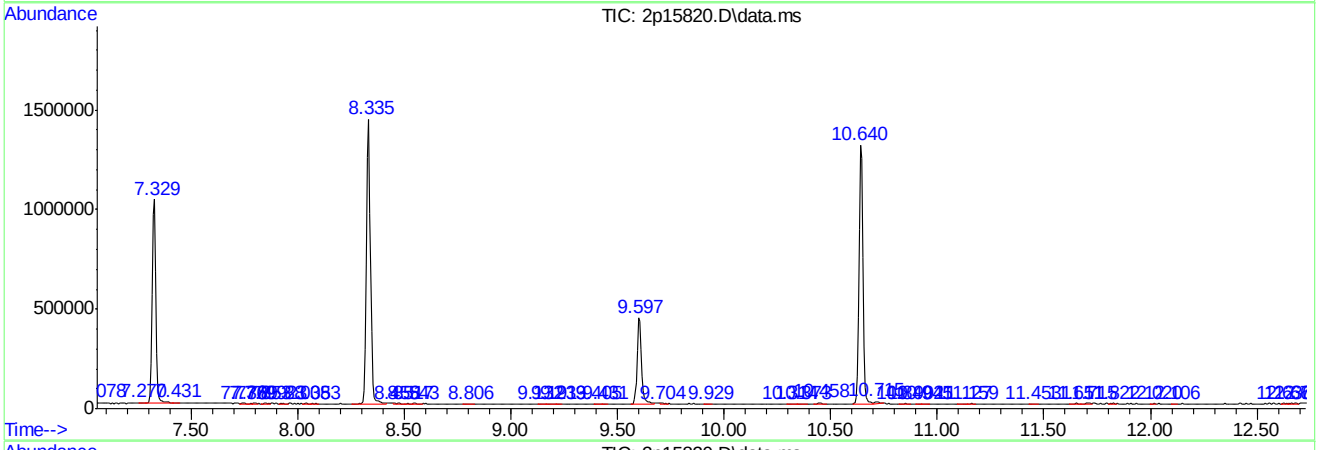
9.2.2

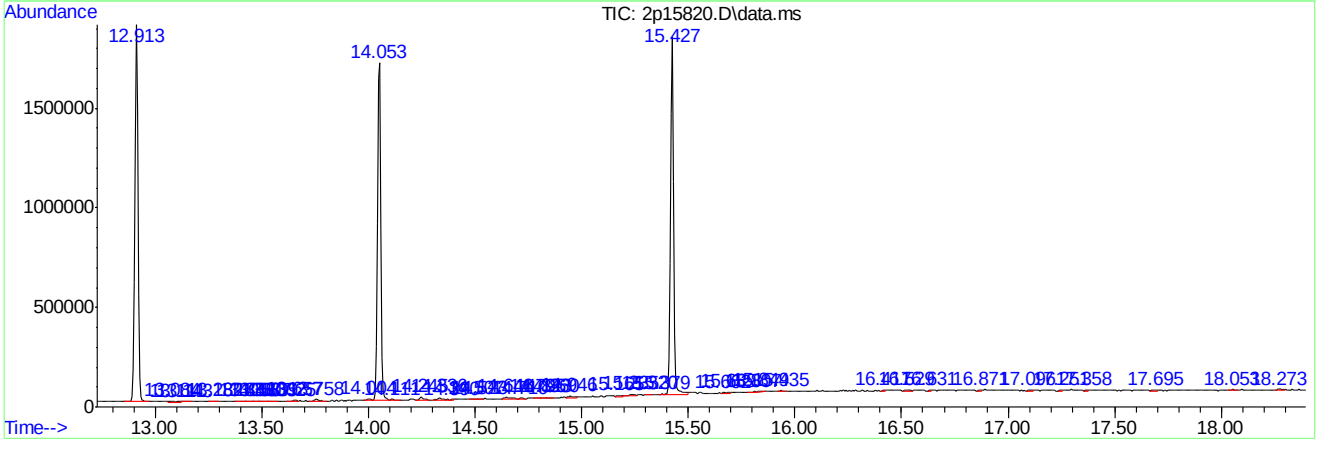
9

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On    :  4 Sep 2012   9:55 am
Operator  : andrews1
Sample    : op59504-mb1
Misc      : op59504,e2p718,35.0,,,1,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\nist98.l
TIC Integration Parameters: rteint.p
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS

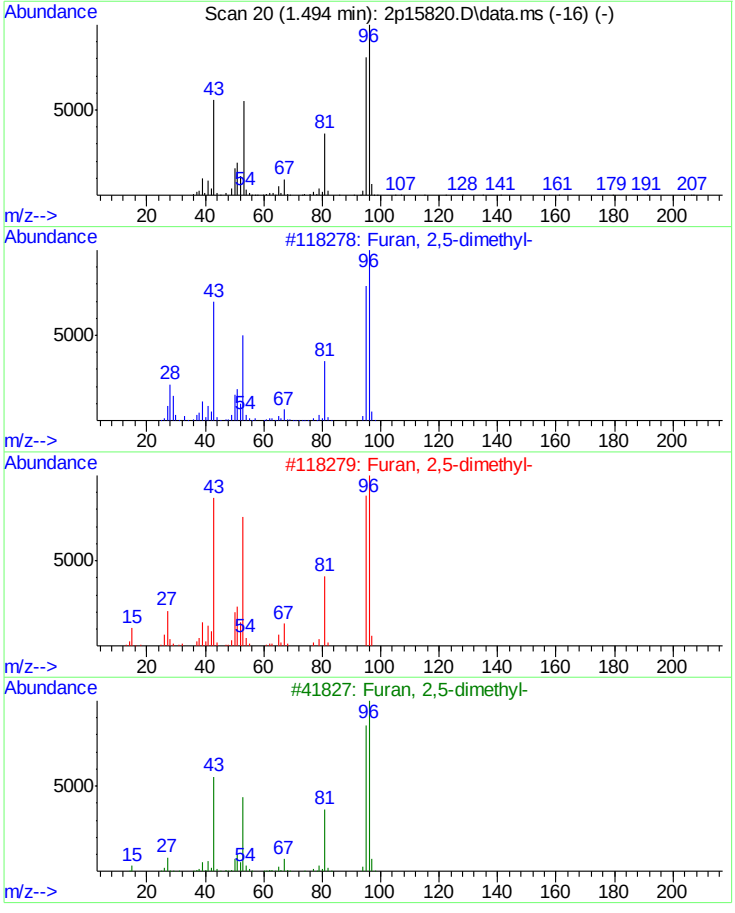
TIC Library : C:\Database\nist98.l
TIC Integration Parameters: rteint.p

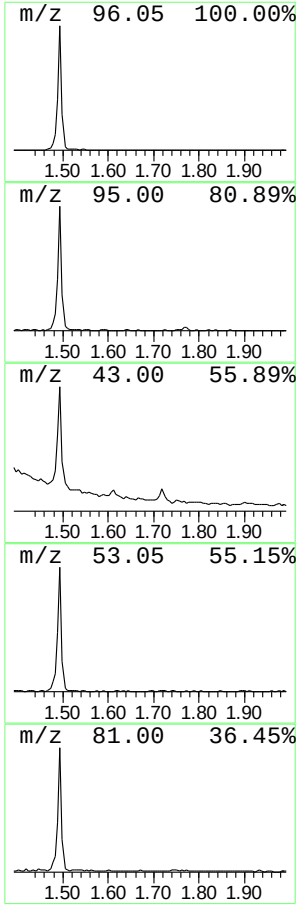
****

Peak Number 1 system artifact Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.494	4.95 ppb	153959	1,4-Dichlorobenzene-d4	3.906

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	95
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
4	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
5	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	78





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS

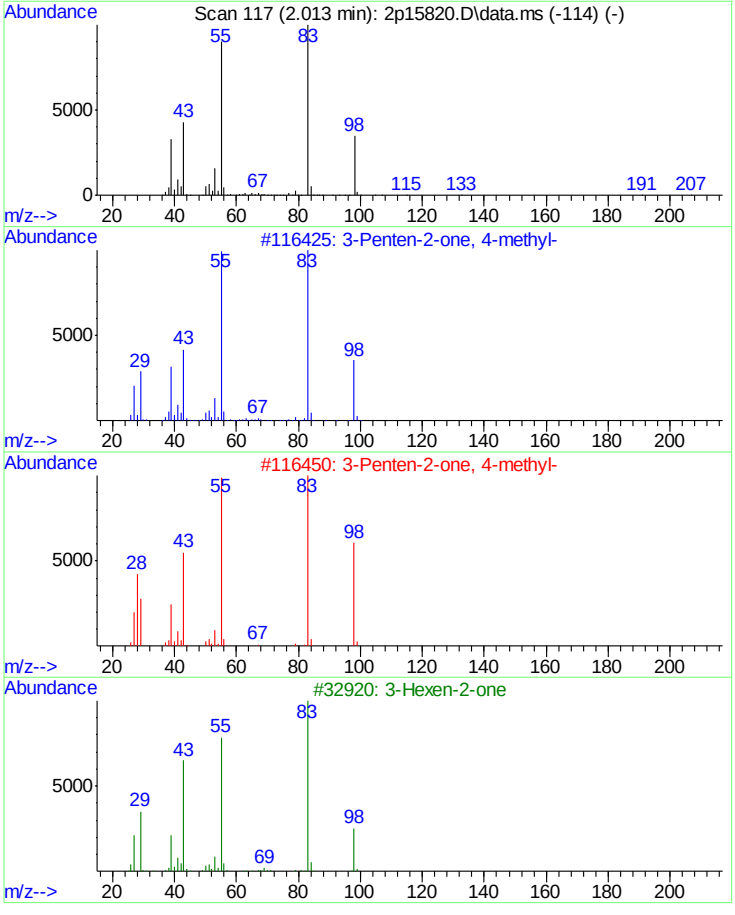
TIC Library : C:\Database\nist98.l
TIC Integration Parameters: rteint.p

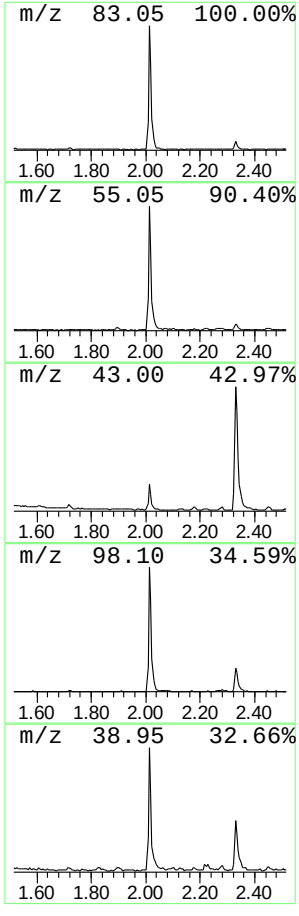
****

Peak Number 2 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.013	5.80 ppb	180431	1,4-Dichlorobenzene-d4	3.906

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	95
2	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
3	3-Hexen-2-one	98	C6H10O	000763-93-9	91
4	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

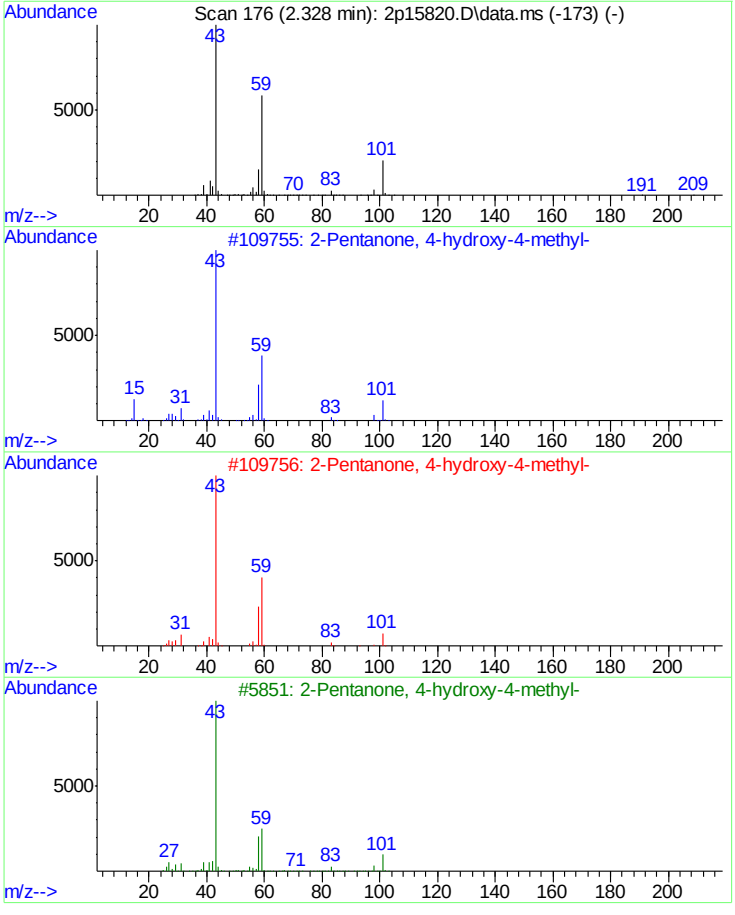
Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS

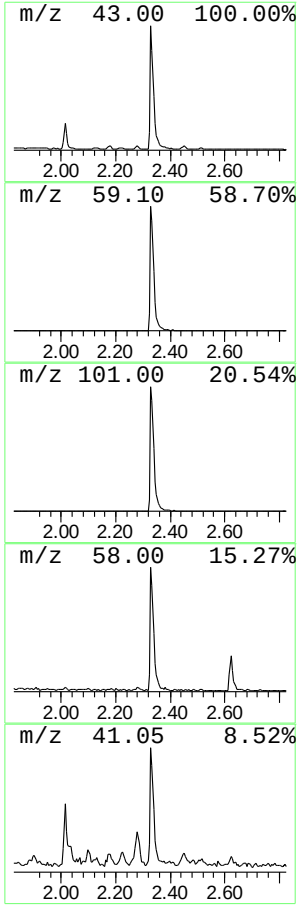
TIC Library : C:\Database\nist98.l
TIC Integration Parameters: rteint.p

****
Peak Number 3 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.328	9.22 ppb	286911	1,4-Dichlorobenzene-d4	3.906

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	32
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





M2P691.M Tue Sep 04 14:17:59 2012 RPT1 Page: 9

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2p718\
Data File : 2p15820.D
Acq On : 4 Sep 2012 9:55 am
Operator : andrews1
Sample : op59504-mb1
Misc : op59504,e2p718,35.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P691.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\nist98.l
TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.494	5.0	ppb	153959	1	3.906	1244390	40.0
system artifact	2.013	5.8	ppb	180431	1	3.906	1244390	40.0
system artifact...	2.328	9.2	ppb	286911	1	3.906	1244390	40.0

9.2.2

9

New Jersey
ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59561-MB1	4G22354.D	1	09/05/12	DS	09/05/12	OP59561	G4G575

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.50	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.43	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.34	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.39	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.49	ug/kg	
72-20-8	Endrin	ND	0.67	0.34	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.60	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.41	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.47	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.43	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	109%	23-137%
877-09-8	Tetrachloro-m-xylene	112%	23-137%
2051-24-3	Decachlorobiphenyl	108%	22-160%
2051-24-3	Decachlorobiphenyl	112%	22-160%

Method Blank Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59562-MB1	EF112229.D	1	09/05/12	GAD	09/05/12	OP59562	GEF4567

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-4R

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	29	7.6	ug/kg	
11104-28-2	Aroclor 1221	ND	29	18	ug/kg	
11141-16-5	Aroclor 1232	ND	29	15	ug/kg	
53469-21-9	Aroclor 1242	ND	29	9.4	ug/kg	
12672-29-6	Aroclor 1248	ND	29	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	29	14	ug/kg	
11096-82-5	Aroclor 1260	ND	29	9.6	ug/kg	
11100-14-4	Aroclor 1268	ND	29	8.6	ug/kg	
37324-23-5	Aroclor 1262	ND	29	9.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	92%	22-141%
877-09-8	Tetrachloro-m-xylene	111%	22-141%
2051-24-3	Decachlorobiphenyl	98%	18-163%
2051-24-3	Decachlorobiphenyl	99%	18-163%

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59561-BS1	4G22355.D	1	09/05/12	DS	09/05/12	OP59561	G4G575

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	19.6	118	57-149
319-84-6	alpha-BHC	16.7	19.6	118	56-150
319-85-7	beta-BHC	16.7	18.8	113	58-143
319-86-8	delta-BHC	16.7	18.8	113	36-152
58-89-9	gamma-BHC (Lindane)	16.7	18.9	113	57-149
5103-71-9	alpha-Chlordane	16.7	19.8	119	58-147
5103-74-2	gamma-Chlordane	16.7	19.7	118	57-151
60-57-1	Dieldrin	16.7	20.2	121	62-152
72-54-8	4,4'-DDD	16.7	20.8	125	59-151
72-55-9	4,4'-DDE	16.7	19.2	115	57-151
50-29-3	4,4'-DDT	16.7	15.8	95	54-155
72-20-8	Endrin	16.7	19.7	118	58-151
1031-07-8	Endosulfan sulfate	16.7	16.5	99	56-152
7421-93-4	Endrin aldehyde	16.7	20.7	124	49-134
959-98-8	Endosulfan-I	16.7	20.6	124	57-150
33213-65-9	Endosulfan-II	16.7	19.6	118	60-146
76-44-8	Heptachlor	16.7	18.3	110	52-150
1024-57-3	Heptachlor epoxide	16.7	20.1	121	56-147
72-43-5	Methoxychlor	16.7	17.9	107	53-154
53494-70-5	Endrin ketone	16.7	20.1	121	58-147

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	113%	23-137%
877-09-8	Tetrachloro-m-xylene	110%	23-137%
2051-24-3	Decachlorobiphenyl	109%	22-160%
2051-24-3	Decachlorobiphenyl	114%	22-160%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59562-BS1	EF112230.D	1	09/05/12	GAD	09/05/12	OP59562	GEF4567

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	118	133	113	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	118	133	113	66-150
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	95%	22-141%
877-09-8	Tetrachloro-m-xylene	116%	22-141%
2051-24-3	Decachlorobiphenyl	98%	18-163%
2051-24-3	Decachlorobiphenyl	102%	18-163%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59561-MS	4G22448.D	1	09/07/12	DS	09/05/12	OP59561	G4G577
OP59561-MSD	4G22449.D	1	09/07/12	DS	09/05/12	OP59561	G4G577
JB15273-5	4G22389.D	1	09/06/12	DS	09/05/12	OP59561	G4G576

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB15113-4R

CAS No.	Compound	JB15273-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		17.6	13.6	77	13.4	76	1	21-171/47
319-84-6	alpha-BHC	ND		17.6	20.9	119	20.4	116	2	23-174/44
319-85-7	beta-BHC	ND		17.6	11.5	65	12.9	73	11	14-172/46
319-86-8	delta-BHC	ND		17.6	16.4	93	16.0	91	2	8-164/48
58-89-9	gamma-BHC (Lindane)	ND		17.6	12.6	72	12.1	69	4	23-163/45
5103-71-9	alpha-Chlordane	ND		17.6	15.1	86	14.4	82	5	20-170/45
5103-74-2	gamma-Chlordane	ND		17.6	13.3	76	13.3	76	0	19-165/47
60-57-1	Dieldrin	ND		17.6	15.4	87	14.1	80	9	22-173/46
72-54-8	4,4'-DDD	ND		17.6	14.7	83	13.9	79	6	18-179/46
72-55-9	4,4'-DDE	ND		17.6	15.0	85	15.5	88	3	20-188/44
50-29-3	4,4'-DDT	ND		17.6	17.5	99	16.8	95	4	21-193/47
72-20-8	Endrin	ND		17.6	14.9	85	14.1	80	6	26-172/48
1031-07-8	Endosulfan sulfate	ND		17.6	12.3	70	11.3	64	8	1-159/52
7421-93-4	Endrin aldehyde	ND		17.6	21.6	123	12.1	69	56	1-134/56
959-98-8	Endosulfan-I	ND		17.6	13.4	76	13.0	74	3	20-156/43
33213-65-9	Endosulfan-II	ND		17.6	13.9	79	13.1	74	6	10-158/50
76-44-8	Heptachlor	ND		17.6	12.9	73	12.4	70	4	27-163/46
1024-57-3	Heptachlor epoxide	ND		17.6	13.9	79	13.6	77	2	21-161/47
72-43-5	Methoxychlor	ND		17.6	38.1	216* [a]	27.9	158	31	7-192/51
53494-70-5	Endrin ketone	ND		17.6	13.5	77	13.5	77	0	1-176/49
8001-35-2	Toxaphene	ND			ND		ND		nc	32-165/30

CAS No.	Surrogate Recoveries	MS	MSD	JB15273-5	Limits
877-09-8	Tetrachloro-m-xylene	72%	69%	73%	23-137%
877-09-8	Tetrachloro-m-xylene	100%	81%	82%	23-137%
2051-24-3	Decachlorobiphenyl	50%	55%	77%	22-160%
2051-24-3	Decachlorobiphenyl	84%	78%	92%	22-160%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59562-MS	EF112291.D	1	09/06/12	GAD	09/05/12	OP59562	GEF4568
OP59562-MSD	EF112292.D	1	09/06/12	GAD	09/05/12	OP59562	GEF4568
JB14977-3	EF112232.D	1	09/05/12	GAD	09/05/12	OP59562	GEF4567

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB15113-4R

CAS No.	Compound	JB14977-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		180	136	76	129	72	5	28-185/42
11104-28-2	Aroclor 1221	ND			ND		ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND		ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND		ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND		ND		nc	70-130/13
11097-69-1	Aroclor 1254	1080			1210		1130		7	70-130/20
11096-82-5	Aroclor 1260	ND		180	494	275* [a]	462	257* [a]	7	20-190/43
11100-14-4	Aroclor 1268	ND			ND		ND		nc	-/30
37324-23-5	Aroclor 1262	ND			ND		ND		nc	-/30

CAS No.	Surrogate Recoveries	MS	MSD	JB14977-3	Limits
877-09-8	Tetrachloro-m-xylene	66%	59%	61%	22-141%
877-09-8	Tetrachloro-m-xylene	67%	64%	64%	22-141%
2051-24-3	Decachlorobiphenyl	78%	76%	74%	18-163%
2051-24-3	Decachlorobiphenyl	76%	96%	77%	18-163%

(a) Outside control limits due to presence of other Aroclor pattern.

* = Outside of Control Limits.

DDT/Endrin Breakdown Check

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G525-DDT	**Injection Date:**	06/26/12
Lab File ID:	4G20021.D	**Injection Time:**	14:06
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8242803	7317819
4,4'-DDE	3471102	4003463
4,4'-DDT	431062608	377521059
DDT Breakdown [a]	2.6 %	2.9 %
Endrin aldehyde	1446239	1646210
Endrin ketone	2494069	3055178
Endrin	246279073	220269813
Endrin Breakdown [b]	1.6 %	2.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G525-IC525	4G20023.D	06/26/12	14:34	00:28	Initial cal 1
G4G525-IC525	4G20024.D	06/26/12	14:49	00:43	Initial cal 2
G4G525-IC525	4G20025.D	06/26/12	15:03	00:57	Initial cal 5
G4G525-IC525	4G20026.D	06/26/12	15:33	01:27	Initial cal 10
G4G525-ICC525	4G20027.D	06/26/12	15:48	01:42	Initial cal 25
G4G525-IC525	4G20028.D	06/26/12	16:02	01:56	Initial cal 50
G4G525-IC525	4G20029.D	06/26/12	16:16	02:10	Initial cal 100
G4G525-IC525	4G20030.D	06/26/12	16:31	02:25	Initial cal 500
G4G525-IC525	4G20031.D	06/26/12	16:45	02:39	Initial cal 500
G4G525-ICV525	4G20032.D	06/26/12	16:59	02:53	Initial cal verification 25
G4G525-ICV525	4G20033.D	06/26/12	17:14	03:08	Initial cal verification 500
G4G525-ICV525	4G20034.D	06/26/12	17:28	03:22	Initial cal verification 500
G4G526-CC525	4G20035.D	06/26/12	17:43	03:37	Continuing cal 25
OP57916-BS1	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57915-BS1	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57874-BS2	4G20037.D	06/26/12	18:11	04:05	Blank Spike
OP57915-LS7	4G20038.D	06/26/12	18:26	04:20	Leachate Spike
OP57916-LS8	4G20039.D	06/26/12	18:40	04:34	Leachate Spike
ZZZZZZ	4G20040.D	06/26/12	18:54	04:48	(unrelated sample)
ZZZZZZ	4G20041.D	06/26/12	19:09	05:03	(unrelated sample)
ZZZZZZ	4G20042.D	06/26/12	19:23	05:17	(unrelated sample)
G4G526-CC525	4G20043.D	06/26/12	20:06	06:00	Continuing cal 10
OP57871-MB1	4G20044.D	06/26/12	20:21	06:15	Method Blank
OP57871-BS1	4G20045.D	06/26/12	20:35	06:29	Blank Spike

DDT/Endrin Breakdown Check

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-DDT
Lab File ID: 4G20021.D
Instrument ID: GC4G
Injection Date: 06/26/12
Injection Time: 14:06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JB9481-1	4G20046.D	06/26/12	20:49	06:43	(used for QC only; not part of job JB15113R)
OP57871-MSD	4G20048.D	06/26/12	21:33	07:27	Matrix Spike Duplicate
G4G526-CC525	4G20050.D	06/26/12	22:30	08:24	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G575-DDT	**Injection Date:**	09/05/12
Lab File ID:	4G22343.D	**Injection Time:**	09:55
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8680476	11644742
4,4'-DDE	22448742	21686723
4,4'-DDT	399179165	398233872
DDT Breakdown [a]	7.2 %	7.7 %
Endrin aldehyde	0	0
Endrin ketone	2629197	3496536
Endrin	263460442	258010309
Endrin Breakdown [b]	1 %	1.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP59484-MB1	4G22344.D	09/05/12	10:09	00:14	Method Blank
ZZZZZZ	4G22345.D	09/05/12	10:24	00:29	(unrelated sample)
ZZZZZZ	4G22346.D	09/05/12	10:38	00:43	(unrelated sample)
ZZZZZZ	4G22347.D	09/05/12	10:53	00:58	(unrelated sample)
ZZZZZZ	4G22348.D	09/05/12	11:14	01:19	(unrelated sample)
ZZZZZZ	4G22349.D	09/05/12	11:29	01:34	(unrelated sample)
ZZZZZZ	4G22352.D	09/05/12	12:34	02:39	(unrelated sample)
G4G575-CC525	4G22353.D	09/05/12	13:03	03:08	Continuing cal 25
OP59561-MB1	4G22354.D	09/05/12	13:21	03:26	Method Blank
OP59561-BS1	4G22355.D	09/05/12	13:36	03:41	Blank Spike
ZZZZZZ	4G22356.D	09/05/12	13:50	03:55	(unrelated sample)
ZZZZZZ	4G22358.D	09/05/12	14:19	04:24	(unrelated sample)
ZZZZZZ	4G22359.D	09/05/12	14:33	04:38	(unrelated sample)
ZZZZZZ	4G22360.D	09/05/12	14:48	04:53	(unrelated sample)
G4G575-CC525	4G22363.D	09/05/12	17:01	07:06	Continuing cal 10

DDT/Endrin Breakdown Check

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G577-DDT	**Injection Date:**	09/07/12
Lab File ID:	4G22443.D	**Injection Time:**	09:00
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14226102	11688664
4,4'-DDE	7711758	8834016
4,4'-DDT	428058041	430983895
DDT Breakdown [a]	4.9 %	4.5 %
Endrin aldehyde	0	0
Endrin ketone	2369024	3677330
Endrin	272036371	268508353
Endrin Breakdown [b]	0.9 %	1.4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4G22445.D	09/07/12	09:34	00:34	(unrelated sample)
ZZZZZZ	4G22446.D	09/07/12	10:05	01:05	(unrelated sample)
ZZZZZZ	4G22447.D	09/07/12	10:30	01:30	(unrelated sample)
OP59561-MS	4G22448.D	09/07/12	10:56	01:56	Matrix Spike
OP59561-MSD	4G22449.D	09/07/12	11:11	02:11	Matrix Spike Duplicate
JB15268-1	4G22450.D	09/07/12	11:25	02:25	(used for QC only; not part of job JB15113R)
OP59516-MS	4G22451.D	09/07/12	11:48	02:48	Matrix Spike
OP59516-MSD	4G22452.D	09/07/12	12:11	03:11	Matrix Spike Duplicate
G4G577-CC525	4G22453.D	09/07/12	13:06	04:06	Continuing cal 25
OP59626-MB1	4G22454.D	09/07/12	13:21	04:21	Method Blank
OP59626-BS1	4G22455.D	09/07/12	13:35	04:35	Blank Spike
OP59626-MS	4G22456.D	09/07/12	13:50	04:50	Matrix Spike
OP59626-MSD	4G22457.D	09/07/12	14:04	05:04	Matrix Spike Duplicate
JB15623-1	4G22458.D	09/07/12	14:19	05:19	(used for QC only; not part of job JB15113R)
ZZZZZZ	4G22459.D	09/07/12	14:33	05:33	(unrelated sample)
ZZZZZZ	4G22460.D	09/07/12	14:47	05:47	(unrelated sample)
ZZZZZZ	4G22461.D	09/07/12	15:02	06:02	(unrelated sample)
ZZZZZZ	4G22462.D	09/07/12	15:16	06:16	(unrelated sample)
G4G577-CC525	4G22463.D	09/07/12	15:32	06:32	Continuing cal 10

DDT/Endrin Breakdown Check

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample:	G4G581-DDT	**Injection Date:**	09/13/12
Lab File ID:	4G22673.D	**Injection Time:**	09:38
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	17141196	14852319
4,4'-DDE	6468815	5492700
4,4'-DDT	291549930	291309818
DDT Breakdown [a]	7.5 %	6.5 %
Endrin aldehyde	0	0
Endrin ketone	2950612	6561648
Endrin	206111704	202034526
Endrin Breakdown [b]	1.4 %	3.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4G22675.D	09/13/12	10:12	00:34	(unrelated sample)
ZZZZZZ	4G22676.D	09/13/12	10:27	00:49	(unrelated sample)
JB15664-2	4G22677.D	09/13/12	10:41	01:03	(used for QC only; not part of job JB15113R)
ZZZZZZ	4G22678.D	09/13/12	10:55	01:17	(unrelated sample)
ZZZZZZ	4G22679.D	09/13/12	11:10	01:32	(unrelated sample)
ZZZZZZ	4G22680.D	09/13/12	11:24	01:46	(unrelated sample)
JB15767-1A	4G22681.D	09/13/12	11:39	02:01	(used for QC only; not part of job JB15113R)
ZZZZZZ	4G22682.D	09/13/12	11:53	02:15	(unrelated sample)
G4G581-CC525	4G22683.D	09/13/12	12:36	02:58	Continuing cal 25
JB15113-4R	4G22685.D	09/13/12	13:06	03:28	046-PE 7B-1.5'-2'
ZZZZZZ	4G22686.D	09/13/12	13:20	03:42	(unrelated sample)
ZZZZZZ	4G22687.D	09/13/12	13:35	03:57	(unrelated sample)
ZZZZZZ	4G22689.D	09/13/12	14:03	04:25	(unrelated sample)
ZZZZZZ	4G22690.D	09/13/12	14:18	04:40	(unrelated sample)
ZZZZZZ	4G22691.D	09/13/12	14:32	04:54	(unrelated sample)
ZZZZZZ	4G22692.D	09/13/12	14:46	05:08	(unrelated sample)
ZZZZZZ	4G22693.D	09/13/12	15:12	05:34	(unrelated sample)
G4G581-CC525	4G22694.D	09/13/12	15:54	06:16	Continuing cal 10

Semivolatile Surrogate Recovery Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-4R	4G22685.D	64.0	70.0	168.0* [c]	152.0
OP59561-BS1	4G22355.D	113.0	110.0	109.0	114.0
OP59561-MB1	4G22354.D	109.0	112.0	108.0	112.0
OP59561-MS	4G22448.D	72.0	100.0	50.0	84.0
OP59561-MSD	4G22449.D	69.0	81.0	55.0	78.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	23-137%
S2 = Decachlorobiphenyl	22-160%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB15113-4R	EF112527.D	72.0	128.0	70.0	119.0
OP59562-BS1	EF112230.D	95.0	116.0	98.0	102.0
OP59562-MB1	EF112229.D	92.0	111.0	98.0	99.0
OP59562-MS	EF112291.D	66.0	67.0	78.0	76.0
OP59562-MSD	EF112292.D	59.0	64.0	76.0	96.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	22-141%
S2 = Decachlorobiphenyl	18-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G4G575-CC525	**Injection Date:**	09/05/12
Lab File ID:	4G22353.D	**Injection Time:**	13:03
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.25	2.06	9.73	9.94

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP59561-MB1	4G22354.D	09/05/12	13:21	2.26	2.06	9.74	9.94
OP59561-BS1	4G22355.D	09/05/12	13:36	2.25	2.06	9.73	9.94
ZZZZZZ	4G22356.D	09/05/12	13:50	2.25	2.06	9.73	9.94
ZZZZZZ	4G22358.D	09/05/12	14:19	0.00	0.00	0.00	0.00
ZZZZZZ	4G22359.D	09/05/12	14:33	2.25	2.06	9.73	9.93
ZZZZZZ	4G22360.D	09/05/12	14:48	2.25	2.06	9.73	9.94

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G4G577-CC525	**Injection Date:**	09/07/12
Lab File ID:	4G22442.D	**Injection Time:**	08:39
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.25	2.05	9.73	9.94

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	4G22445.D	09/07/12	09:34	2.26	2.06	9.73	9.93
ZZZZZZ	4G22446.D	09/07/12	10:05	2.25	2.06	9.72	9.93
ZZZZZZ	4G22447.D	09/07/12	10:30	2.25	2.06	9.72	9.93
OP59561-MS	4G22448.D	09/07/12	10:56	2.25	2.06	9.72	9.93
OP59561-MSD	4G22449.D	09/07/12	11:11	2.25	2.06	9.72	9.93
JB15268-1	4G22450.D	09/07/12	11:25	2.26	2.07	9.72	9.93
OP59516-MS	4G22451.D	09/07/12	11:48	2.26	2.07	9.72	9.93
OP59516-MSD	4G22452.D	09/07/12	12:11	2.26	2.07	9.72	9.93

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	G4G581-CC525	**Injection Date:**	09/13/12
Lab File ID:	4G22683.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.24	2.05	9.72	9.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JB15113-4R	4G22685.D	09/13/12	13:06	2.24	2.05	9.71	9.92
ZZZZZZ	4G22686.D	09/13/12	13:20	2.25	2.06	9.71	9.92
ZZZZZZ	4G22687.D	09/13/12	13:35	2.25	2.06	9.71	9.92
ZZZZZZ	4G22689.D	09/13/12	14:03	2.25	2.06	9.71	9.92
ZZZZZZ	4G22690.D	09/13/12	14:18	2.26	2.06	9.71	9.92
ZZZZZZ	4G22691.D	09/13/12	14:32	2.25	2.06	9.72	9.93
ZZZZZZ	4G22692.D	09/13/12	14:46	2.26	2.06	9.71	9.92
ZZZZZZ	4G22693.D	09/13/12	15:12	2.25	2.06	9.71	9.92

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GEF4566-CC4548	**Injection Date:**	09/05/12
Lab File ID:	EF112222.D	**Injection Time:**	08:06
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.05	4.11	13.93	16.92

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	EF112224.D	09/05/12	08:55	3.06	4.12	13.94	16.92
ZZZZZZ	EF112225.D	09/05/12	09:19	3.05	4.11	13.93	16.92
ZZZZZZ	EF112226.D	09/05/12	09:43	3.07	4.13	13.93	16.91
ZZZZZZ	EF112227.D	09/05/12	10:07	3.06	4.11	13.93	16.91
ZZZZZZ	EF112228.D	09/05/12	10:32	3.06	4.12	13.94	16.93
OP59562-MB1	EF112229.D	09/05/12	10:56	3.06	4.13	13.95	16.94
OP59562-BS1	EF112230.D	09/05/12	11:20	3.07	4.13	13.95	16.94
ZZZZZZ	EF112231.D	09/05/12	11:44	3.07	4.12	13.95	16.94
JB14977-3	EF112232.D	09/05/12	12:08	3.06	4.12	13.95	16.94

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GEF4568-CC4548	**Injection Date:**	09/06/12
Lab File ID:	EF112288.D	**Injection Time:**	13:50
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.08	4.13	13.98	16.98

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	EF112290.D	09/06/12	14:49	3.07	4.15	14.00	16.98
OP59562-MS	EF112291.D	09/06/12	15:13	3.07	4.13	13.98	16.97
OP59562-MSD	EF112292.D	09/06/12	15:37	3.08	4.13	13.97	16.96

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Check Std:	GEF4572-CC4548	**Injection Date:**	09/12/12
Lab File ID:	EF112517.D	**Injection Time:**	08:11
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.28	4.41	14.39	17.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	EF112519.D	09/12/12	09:02	3.29	4.42	14.39	17.46
ZZZZZZ	EF112520.D	09/12/12	09:26	3.29	4.42	14.40	17.47
ZZZZZZ	EF112521.D	09/12/12	09:50	3.29	4.42	14.43	17.49
ZZZZZZ	EF112522.D	09/12/12	10:14	3.32	4.45	14.40	17.48
ZZZZZZ	EF112523.D	09/12/12	10:38	3.29	4.42	14.41	17.49
ZZZZZZ	EF112524.D	09/12/12	11:02	3.29	4.42	14.41	17.49
ZZZZZZ	EF112525.D	09/12/12	11:26	3.28	4.43	14.41	17.48
ZZZZZZ	EF112526.D	09/12/12	11:50	3.29	4.43	14.41	17.49
JB15113-4R	EF112527.D	09/12/12	12:14	3.29	4.43	14.41	17.48

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-ICC525
Lab FileID: 4G20027.D

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 27 16:03:50 2012
Response via : Initial Calibration

Calibration Files
2 =4g20024.D 5 =4g20025.D 10 =4g20026.D 25 =4g20027.D
50 =4g20028.D 100 =4g20029.D 1 =4g20023.D

Compound	2	5	10	25	50	100	1	Avg	%RSD
1)SABTetrachloro-m-xyl	3.469	3.673	3.695	3.830	3.997	4.439	4.166	3.896 E6	8.48
2)A alpha-BHC	4.082	4.385	4.617	5.216	5.815	6.795	4.534	5.063 E6	18.89
3)MAgamma-BHC	3.973	4.322	4.482	4.993	5.471	6.323	4.510	4.868 E6	16.50
4)MAHeptachlor	3.835	4.117	4.173	4.536	5.014	5.726	4.535	4.562 E6	13.97
5)B beta-BHC	2.226	2.252	2.216	2.298	2.404	2.614	2.617	2.375 E6	7.38
6)B delta-BHC	3.114	3.360	3.544	4.123	4.688		3.844	3.779 E6	15.07
7)MBAldrin	3.659	3.835	3.991	4.398	4.817	5.526	3.982	4.315 E6	15.26
8)B Heptachlor Epoxid	3.706	3.860	3.939	4.218	4.510	5.002	4.067	4.186 E6	10.61
9)B gamma-Chlordane	3.727	3.876	3.949	4.231	4.534	5.161	4.281	4.251 E6	11.42
10)B alpha-Chlordane	3.686	3.812	3.912	4.140	4.394	4.964	4.196	4.158 E6	10.35
11)A Endosulfan I	3.563	3.683	3.783	4.036	4.272	4.797	4.053	4.027 E6	10.37
12)B 4,4'-DDE	2.779	2.845	3.018	3.280	3.627	4.317	3.199	3.295 E6	16.20
13)MADieldrin	3.493	3.548	3.773	4.133	4.486	5.114	4.028	4.082 E6	14.01
14)MAEndrin	3.187	3.290	3.453	3.696	4.004	4.586	3.829	3.721 E6	12.91
15)A 4,4'-DDD	2.759	2.546	2.597	2.707	2.993	3.530	3.408	2.934 E6	13.41
16)B Endosulfan II	3.484	3.308	3.394	3.564	3.878	4.412	4.237	3.754 E6	11.50
17)MA4,4'-DDT	1.958	2.008	2.255	2.544	3.040		2.277	2.347 E6	17.03
18)B Endrin Aldehyde	2.505	2.423	2.671	2.696	2.762	3.293	2.800	2.736 E6	10.25
19)B Endosulfan Sulfat	2.766	2.730	2.875	2.991	3.171	3.604	3.132	3.038 E6	9.92
20)A Methoxychlor	1.142	1.220	1.311	1.418	1.531	1.730	1.348	1.386 E6	14.26
21) Mirex	3.363	3.327	3.338	3.276	3.296	3.533	4.102	3.462 E6	8.50
22)B Endrin Ketone	2.824	2.894	3.165	3.196	3.306	3.925	3.212	3.218 E6	11.14
23)L8Toxaphene{A}					1.026			1.026 E5	0.00
24)L8Toxaphene{B}					1.897			1.897 E5	0.00
25)L8Toxaphene{C}					1.291			1.291 E5	0.00
26)L8Toxaphene{D}					1.016			1.016 E5	0.00
27)L8Toxaphene{E}					1.243			1.243 E5	0.00
28) Chlordane {A}					1.333			1.333 E5	0.00
29) Chlordane {B}					1.815			1.815 E5	0.00
30) Chlordane {C}					6.866			6.866 E5	0.00
31) Chlordane {D}					1.162			1.162 E6	0.00
32) Chlordane {E}					1.502			1.502 E5	0.00
33)SADecachlorobipheny	2.796	2.896	2.886	2.864	2.889	3.123	3.485	2.991 E6	8.03

Signal #2

1)SABTetrachloro-m-xyl	3.333	3.210	3.147	3.075	3.359	3.638	4.424	3.455 E6	13.45
2)A alpha-BHC	4.257	4.317	4.318	4.544	4.864	5.568	4.766	4.662 E6	9.94
3)MAgamma-BHC	4.037	4.166	4.127	4.296	4.584	5.200	4.631	4.434 E6	9.17
4)MAHeptachlor	4.026	4.036	3.925	3.992	4.169	4.670	4.780	4.228 E6	8.24
5)B beta-BHC	2.107	2.040	1.975	1.899	1.936	2.069	2.510	2.077 E6	9.86
6)B delta-BHC	3.388	3.403	3.424	3.599	3.829	4.503	3.880	3.718 E6	10.78
7)MBAldrin	4.392	4.008	3.828	3.858	4.019	4.519	5.819	4.349 E6	16.07
8)B Heptachlor Epoxid	3.857	3.847	3.736	3.664	3.787	4.140	4.700	3.962 E6	9.04
9)B gamma-Chlordane	3.830	3.790	3.664	3.661	3.831	4.246	4.537	3.937 E6	8.36
10)B alpha-Chlordane	3.740	3.714	3.573	3.565	3.686	4.068	4.452	3.828 E6	8.41
11)A Endosulfan I	3.610	3.553	3.402	3.383	3.477	3.823	4.210	3.637 E6	8.07

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G525-ICC525
Lab FileID: 4G20027.D

12)B 4,4'-DDE	3.362	3.393	3.302	3.336	3.510	3.948	3.878	3.533	E6	7.61
13)MADieldrin	3.723	3.811	3.686	3.756	3.866	4.299	4.441	3.940	E6	7.66
14)MAEndrin	3.356	3.423	3.301	3.276	3.431	3.846	4.052	3.526	E6	8.51
15)A 4,4'-DDD	2.643	2.639	2.581	2.491	2.588	2.949	3.312	2.743	E6	10.53
16)B Endosulfan II	3.612	3.622	3.558	3.505	3.630	3.961	4.319	3.744	E6	7.82
17)MA4,4'-DDT	1.958	2.136	2.266	2.384	2.680	3.091	2.290	2.401	E6	15.69
18)B Endrin Aldehyde	2.590	2.449	2.499	2.406	2.402	2.761	3.092	2.600	E6	9.66
19)B Endosulfan Sulfat	2.916	2.856	2.791	2.682	2.708	2.963	3.403	2.903	E6	8.39
20)A Methoxychlor	1.222	1.283	1.339	1.355	1.402	1.514	1.482	1.371	E6	7.59
21) Mirex	3.238	3.181	3.036	2.813	2.732	2.865	3.971	3.120	E6	13.47
22)B Endrin Ketone	2.956	3.087	3.165	2.987	2.963	3.406	3.483	3.149	E6	6.85
23)L8Toxaphene{A}					8.528			8.528	E4	0.00
24)L8Toxaphene{B}					1.105			1.105	E5	0.00
25)L8Toxaphene{C}					2.129			2.129	E5	0.00
26)L8Toxaphene{D}					1.125			1.125	E5	0.00
27)L8Toxaphene{E}					9.623			9.623	E4	0.00
28) Chlordane {A}					1.346			1.346	E5	0.00
29) Chlordane {B}					1.394			1.394	E5	0.00
30) Chlordane {C}					5.213			5.213	E5	0.00
31) Chlordane {D}					9.316			9.316	E5	0.00
32) Chlordane {E}					1.308			1.308	E5	0.00
33)SADecachlorobipheny	2.781	2.800	2.610	2.465	2.468	2.613	3.234	2.710	E6	9.84

(#) = Out of Range

4PST525.M Wed Jun 27 16:09:04 2012 RPT1

10.7.1

10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-ICV525
Lab FileID: 4G20032.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g525\4g20032.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g525\4g20032.D\ECD2B.ch
Acq On    : 26 Jun 2012   4:59 pm                    Operator: douglass
Sample    : ICV525-25                                Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 16:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
2 A	alpha-BHC	5.063	5.797 E6	-14.5	111	0.00	2.82- 2.88
3 MA	gamma-BHC	4.868	5.366 E6	-10.2	107	0.00	3.13- 3.19
4 MA	Heptachlor	4.562	5.069 E6	-11.1	112	0.00	3.63- 3.71
5 B	beta-BHC	2.375	2.448 E6	-3.1	107	0.00	3.21- 3.27
6 B	delta-BHC	3.779	4.343 E6	-14.9	105	0.00	3.41- 3.47
7 MB	Aldrin	4.315	4.976 E6	-15.3	113	0.00	4.00- 4.07
8 B	Heptachlor Epoxide	4.186	4.562 E6	-9.0	108	0.00	4.75- 4.84
9 B	gamma-Chlordane	4.251	4.649 E6	-9.4	110	0.00	4.93- 5.00
10 B	alpha-Chlordane	4.158	4.578 E6	-10.1	111	0.00	5.09- 5.20
11 A	Endosulfan I	4.027	4.460 E6	-10.8	111	0.00	5.31- 5.38
12 B	4,4'-DDE	3.295	3.581 E6	-8.7	109	0.00	5.21- 5.28
13 MA	Dieldrin	4.082	4.568 E6	-11.9	111	0.00	5.65- 5.72
14 MA	Endrin	3.721	4.089 E6	-9.9	111	0.00	5.99- 6.09
15 A	4,4'-DDD	2.934	2.882 E6	1.8	106	0.00	6.10- 6.17
16 B	Endosulfan II	3.754	3.602 E6	4.0	101	0.00	6.34- 6.42
17 MA	4,4'-DDT	2.347	2.726 E6	-16.1	107	0.00	6.52- 6.62
18 B	Endrin Aldehyde	2.736	2.720 E6	0.6	101	0.00	7.00- 7.08
19 B	Endosulfan Sulfate	3.038	3.156 E6	-3.9	106	0.00	7.71- 7.79
20 A	Methoxychlor	1.386	1.472 E6	-6.2	104	0.00	7.32- 7.42
21	Mirex	3.462	3.359 E6	3.0	103	0.00	7.54- 7.64
22 B	Endrin Ketone	3.218	3.143 E6	2.3	98	0.00	8.19- 8.27

***** Signal #2 *****

2 A	alpha-BHC	4.662	4.914 E6	-5.4	108	0.00	2.61- 2.67
3 MA	gamma-BHC	4.434	4.496 E6	-1.4	105	0.00	2.94- 3.00
4 MA	Heptachlor	4.228	4.307 E6	-1.9	108	0.00	3.41- 3.47
5 B	beta-BHC	2.077	2.044 E6	1.6	108	0.00	3.02- 3.08
6 B	delta-BHC	3.718	3.770 E6	-1.4	105	0.00	3.32- 3.38
7 MB	Aldrin	4.349	4.154 E6	4.5	108	0.00	3.78- 3.84
8 B	Heptachlor Epoxide	3.962	3.950 E6	0.3	108	0.00	4.47- 4.53
9 B	gamma-Chlordane	3.937	3.991 E6	-1.4	109	0.00	4.73- 4.79
10 B	alpha-Chlordane	3.828	3.858 E6	-0.8	108	0.00	4.93- 4.99
11 A	Endosulfan I	3.637	3.650 E6	-0.4	108	0.00	5.01- 5.07
12 B	4,4'-DDE	3.533	3.624 E6	-2.6	109	0.00	5.17- 5.23
13 MA	Dieldrin	3.940	4.021 E6	-2.1	107	0.00	5.39- 5.45
14 MA	Endrin	3.526	3.578 E6	-1.5	109	0.00	5.84- 5.90
15 A	4,4'-DDD	2.743	2.628 E6	4.2	105	0.00	6.04- 6.10
16 B	Endosulfan II	3.744	3.573 E6	4.6	102	0.00	6.17- 6.23
17 MA	4,4'-DDT	2.401	2.542 E6	-5.9	107	0.00	6.53- 6.59
18 B	Endrin Aldehyde	2.600	2.398 E6	7.8	100	0.00	6.70- 6.76

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G525-ICV525
Lab FileID: 4G20032.D

19	B	Endosulfan Sulfate	2.903	2.816 E6	3.0	105	0.00	7.15-	7.21
20	A	Methoxychlor	1.371	1.469 E6	-7.1	108	0.00	7.69-	7.75
21		Mirex	3.120	2.872 E6	7.9	102	0.00	7.95-	8.01
22	B	Endrin Ketone	3.149	2.919 E6	7.3	98	0.00	8.03-	8.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20027.D 4PST525.M Wed Jun 27 16:09:31 2012 RPT1

10.7.2
10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G525-ICV525
Lab FileID: 4G20033.D

Evaluate Continuing Calibration Report

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Signal #1 : C:\msdchem\1\DATA\4g525\4g20033.D\ECD1A.ch   Vial: 13
Signal #2 : C:\msdchem\1\DATA\4g525\4g20033.D\ECD2B.ch
Acq On    : 26 Jun 2012   5:14 pm                    Operator: douglass
Sample    : ICV525-500                               Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 08:10:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 SAB	Tetrachloro-m-xylene	3.896	4.271 E6	-9.6	107	0.00	2.34- 2.40
28	Chlordane {A}	133.327	159.509 E3	-19.6	120	0.00	3.48- 3.68
29	Chlordane {B}	181.482	180.326 E3	0.6	99	0.00	4.08- 4.28
30	Chlordane {C}	686.618	578.442 E3	15.8	84	0.00	4.86- 5.06
31	Chlordane {D}	1.162	0.917 E6	21.1#	79	0.02	5.04- 5.24
32	Chlordane {E}	150.207	135.974 E3	9.5	91	0.00	6.18- 6.38
	Chlordane total	231.363	197.125 E4	14.8	85		
33 SA	Decachlorobiphenyl	2.991	3.074 E6	-2.8	106	0.00	9.89- 9.96

***** Signal #2 *****

1 SAB	Tetrachloro-m-xylene	3.455	3.505 E6	-1.4	104	0.00	2.14- 2.20
28	Chlordane {A}	134.582	152.925 E3	-13.6	114	0.00	3.18- 3.38
29	Chlordane {B}	139.374	139.910 E3	-0.4	100	0.00	3.87- 4.07
30	Chlordane {C}	521.258	436.567 E3	16.2	84	0.00	4.66- 4.86
31	Chlordane {D}	931.582	731.243 E3	21.5#	78	0.07	4.85- 5.05
32	Chlordane {E}	130.813	120.030 E3	8.2	92	0.00	6.17- 6.37
	Chlordane total	185.761	158.068 E4	14.9	85		
33 SA	Decachlorobiphenyl	2.710	2.616 E6	3.5	106	0.00	10.10-10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20028.D 4PST525.M Wed Jun 27 08:12:48 2012 RPT1

10.7.3 10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G525-ICV525
Lab FileID: 4G20034.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g525\4g20034.D\ECD1A.ch   Vial: 14
Signal #2 : C:\msdchem\1\DATA\4g525\4g20034.D\ECD2B.ch
Acq On    : 26 Jun 2012   5:28 pm                    Operator: douglass
Sample    : ICV525-500                               Inst    : GC4G
Misc      : OP57916,g4g525,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 27 08:10:23 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
23 L8	Toxaphene{A}	102.640	82.952 E3	19.2	81	0.00	5.82- 6.02
24 L8	Toxaphene{B}	189.680	154.748 E3	18.4	82	0.00	6.27- 6.47
25 L8	Toxaphene{C}	129.067	116.630 E3	9.6	90	0.00	6.80- 7.00
26 L8	Toxaphene{D}	101.650	114.522 E3	-12.7	113	0.00	7.34- 7.54
27 L8	Toxaphene{E}	124.317	110.893 E3	10.8	89	0.00	7.50- 7.70
28	Toxaphene total	647.354	579.745 E3	10.4	89		
*****	Signal #2 *****						
23 L8	Toxaphene{A}	85.279	77.117 E3	9.6	90	0.00	5.30- 5.50
24 L8	Toxaphene{B}	110.510	100.236 E3	9.3	91	0.00	6.08- 6.28
25 L8	Toxaphene{C}	212.940	193.284 E3	9.2	91	0.00	6.23- 6.43
26 L8	Toxaphene{D}	112.495	109.519 E3	2.6	97	0.00	6.65- 6.85
27 L8	Toxaphene{E}	96.228	86.740 E3	9.9	90	0.00	7.48- 7.68
28	Toxaphene total	617.452	566.896 E3	8.2	91		

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g20028.D 4PST525.M Wed Jun 27 08:12:51 2012 RPT1

10.7.4 10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G575-CC525
Lab FileID: 4G22353.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g575\4g22353.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g575\4g22353.D\ECD2B.ch
Acq On    :  5 Sep 2012   1:03 pm                    Operator: douglass
Sample    : CC525-25                                 Inst    : GC4G
Misc      : OP59484,g4g575,16.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 17:38:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	4.172 E6	-7.1	109	0.00	2.22- 2.28
2	A	alpha-BHC	5.063	5.469 E6	-8.0	105	-0.01	2.68- 2.74
3	MA	gamma-BHC	4.868	5.033 E6	-3.4	101	-0.01	2.98- 3.04
4	MA	Heptachlor	4.562	4.534 E6	0.6	100	-0.01	3.47- 3.54
5	B	beta-BHC	2.375	2.444 E6	-2.9	106	-0.01	3.06- 3.12
6	B	delta-BHC	3.779	3.838 E6	-1.6	93	-0.01	3.25- 3.31
7	MB	Aldrin	4.315	4.778 E6	-10.7	109	-0.02	3.82- 3.89
8	B	Heptachlor Epoxide	4.186	4.530 E6	-8.2	107	-0.02	4.55- 4.64
9	B	gamma-Chlordane	4.251	4.496 E6	-5.8	106	-0.02	4.73- 4.80
10	B	alpha-Chlordane	4.158	4.517 E6	-8.6	109	-0.02	4.89- 5.00
11	A	Endosulfan I	4.027	4.659 E6	-15.7	115	-0.02	5.10- 5.17
12	B	4,4'-DDE	3.295	3.010 E6	8.6	92	-0.02	5.01- 5.08
13	MA	Dieldrin	4.082	4.409 E6	-8.0	107	-0.02	5.44- 5.51
14	MA	Endrin	3.721	4.060 E6	-9.1	110	-0.02	5.77- 5.87
15	A	4,4'-DDD	2.934	2.905 E6	1.0	107	-0.02	5.91- 5.98
16	B	Endosulfan II	3.754	3.951 E6	-5.2	111	-0.02	6.12- 6.19
17	MA	4,4'-DDT	2.347	2.113 E6	10.0	83	-0.02	6.30- 6.41
18	B	Endrin Aldehyde	2.736	3.169 E6	-15.8	118	-0.02	6.77- 6.84
19	B	Endosulfan Sulfate	3.038	2.698 E6	11.2	90	-0.02	7.47- 7.55
20	A	Methoxychlor	1.386	1.226 E6	11.5	86	-0.02	7.11- 7.21
21		Mirex	3.462	3.608 E6	-4.2	110	-0.02	7.30- 7.40
22	B	Endrin Ketone	3.218	3.464 E6	-7.6	108	-0.02	7.94- 8.02
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.992 E6	-0.0	104	-0.01	9.69- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.514 E6	-1.7	114	0.00	2.03- 2.09
2	A	alpha-BHC	4.662	5.264 E6	-12.9	116	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.779 E6	-7.8	111	0.00	2.80- 2.86
4	MA	Heptachlor	4.228	4.408 E6	-4.3	110	0.00	3.24- 3.30
5	B	beta-BHC	2.077	2.080 E6	-0.1	109	0.00	2.88- 2.94

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G575-CC525
Lab FileID: 4G22353.D

6	B	delta-BHC	3.718	3.555 E6	4.4	99	0.00	3.17- 3.23
7	MB	Aldrin	4.349	4.593 E6	-5.6	119	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	4.344 E6	-9.6	119	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	4.346 E6	-10.4	119	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	4.315 E6	-12.7	121	0.00	4.73- 4.79
11	A	Endosulfan I	3.637	4.096 E6	-12.6	121	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.846 E6	-8.9	115	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	4.555 E6	-15.6	121	0.00	5.18- 5.24
14	MA	Endrin	3.526	4.057 E6	-15.1	124	0.00	5.62- 5.68
15	A	4,4'-DDD	2.743	2.688 E6	2.0	108	0.00	5.84- 5.90
16	B	Endosulfan II	3.744	4.494 E6	-20.0#	128	0.00	5.95- 6.01
17	MA	4,4'-DDT	2.401	1.982 E6	17.5	83	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	3.058 E6	-17.6	127	0.00	6.47- 6.53
19	B	Endosulfan Sulfate	2.903	2.712 E6	6.6	101	0.00	6.92- 6.98
20	A	Methoxychlor	1.371	1.189 E6	13.3	88	0.00	7.47- 7.53
21		Mirex	3.120	3.310 E6	-6.1	118	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.453 E6	-9.7	116	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.860 E6	-5.5	116	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22304.D 4PST525.M Wed Sep 05 14:38:56 2012 RPT1

10.7.5

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G575-CC525
Lab FileID: 4G22363.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g575\4g22363.D\ECD1A.ch   Vial: 22
Signal #2 : C:\msdchem\1\DATA\4g575\4g22363.D\ECD2B.ch
Acq On    :  5 Sep 2012   5:01 pm                    Operator: douglass
Sample    : CC525-10                                 Inst    : GC4G
Misc      : OP59484,g4g575,15.7,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 17:38:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.754 E6	3.6	102	-0.01	2.22- 2.28
2	A	alpha-BHC	5.063	4.823 E6	4.7	104	-0.02	2.68- 2.74
3	MA	gamma-BHC	4.868	4.532 E6	6.9	101	-0.02	2.97- 3.03
4	MA	Heptachlor	4.562	4.518 E6	1.0	108	-0.02	3.46- 3.54
5	B	beta-BHC	2.375	2.299 E6	3.2	104	-0.02	3.06- 3.12
6	B	delta-BHC	3.779	3.915 E6	-3.6	110	-0.02	3.25- 3.31
7	MB	Aldrin	4.315	4.087 E6	5.3	102	-0.02	3.81- 3.88
8	B	Heptachlor Epoxide	4.186	4.049 E6	3.3	103	-0.02	4.54- 4.64
9	B	gamma-Chlordane	4.251	3.982 E6	6.3	101	-0.02	4.72- 4.80
10	B	alpha-Chlordane	4.158	4.045 E6	2.7	103	-0.02	4.89- 4.99
11	A	Endosulfan I	4.027	3.932 E6	2.4	104	-0.02	5.09- 5.17
12	B	4,4'-DDE	3.295	2.981 E6	9.5	99	-0.03	5.00- 5.07
13	MA	Dieldrin	4.082	3.800 E6	6.9	101	-0.02	5.43- 5.50
14	MA	Endrin	3.721	3.798 E6	-2.1	110	-0.02	5.76- 5.86
15	A	4,4'-DDD	2.934	2.893 E6	1.4	111	-0.03	5.89- 5.97
16	B	Endosulfan II	3.754	3.661 E6	2.5	108	-0.02	6.11- 6.19
17	MA	4,4'-DDT	2.347	2.610 E6	-11.2	116	-0.03	6.30- 6.40
18	B	Endrin Aldehyde	2.736	2.875 E6	-5.1	108	-0.02	6.76- 6.84
19	B	Endosulfan Sulfate	3.038	2.968 E6	2.3	103	-0.02	7.47- 7.54
20	A	Methoxychlor	1.386	1.470 E6	-6.1	112	-0.03	7.10- 7.20
21		Mirex	3.462	3.396 E6	1.9	102	-0.02	7.30- 7.40
22	B	Endrin Ketone	3.218	3.515 E6	-9.2	111	-0.02	7.94- 8.02
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	3.021 E6	-1.0	105	-0.01	9.69- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.408 E6	1.4	108	0.00	2.02- 2.08
2	A	alpha-BHC	4.662	4.787 E6	-2.7	111	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.452 E6	-0.4	108	0.00	2.79- 2.85
4	MA	Heptachlor	4.228	4.494 E6	-6.3	115	0.00	3.24- 3.30
5	B	beta-BHC	2.077	2.045 E6	1.5	104	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G575-CC525
Lab FileID: 4G22363.D

6	B	delta-BHC	3.718	3.717 E6	0.0	109	0.00	3.17- 3.23
7	MB	Aldrin	4.349	4.113 E6	5.4	107	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	3.905 E6	1.4	105	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	3.916 E6	0.5	107	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	3.963 E6	-3.5	111	0.00	4.72- 4.78
11	A	Endosulfan I	3.637	3.754 E6	-3.2	110	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.526 E6	0.2	107	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	4.056 E6	-2.9	110	0.00	5.18- 5.24
14	MA	Endrin	3.526	3.813 E6	-8.1	116	0.00	5.62- 5.68
15	A	4,4'-DDD	2.743	2.789 E6	-1.7	108	-0.01	5.83- 5.89
16	B	Endosulfan II	3.744	3.908 E6	-4.4	110	0.00	5.94- 6.00
17	MA	4,4'-DDT	2.401	2.110 E6	12.1	93	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	2.762 E6	-6.2	111	0.00	6.46- 6.52
19	B	Endosulfan Sulfate	2.903	3.129 E6	-7.8	112	0.00	6.91- 6.97
20	A	Methoxychlor	1.371	1.429 E6	-4.2	107	-0.01	7.47- 7.53
21		Mirex	3.120	3.303 E6	-5.9	109	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.833 E6	-21.7#	121	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.851 E6	-5.2	109	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22257.D 4PST525.M Fri Sep 07 10:08:33 2012 RPT1

10.7.6

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G577-CC525
Lab FileID: 4G22442.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g577\4g22442.D\ECD1A.ch   Vial: 1
Signal #2 : C:\msdchem\1\DATA\4g577\4g22442.D\ECD2B.ch
Acq On    :  7 Sep 2012   8:39 am                    Operator: douglass
Sample    : CC525-10                                 Inst    : GC4G
Misc      : OP59398,g4g577,16.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Sep 04 17:38:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.679 E6	5.6	100	-0.01	2.22- 2.28
2	A	alpha-BHC	5.063	4.497 E6	11.2	97	-0.02	2.67- 2.73
3	MA	gamma-BHC	4.868	4.253 E6	12.6	95	-0.02	2.97- 3.03
4	MA	Heptachlor	4.562	4.318 E6	5.3	103	-0.02	3.46- 3.54
5	B	beta-BHC	2.375	2.183 E6	8.1	98	-0.02	3.06- 3.12
6	B	delta-BHC	3.779	3.433 E6	9.2	97	-0.02	3.25- 3.31
7	MB	Aldrin	4.315	3.860 E6	10.5	97	-0.02	3.81- 3.88
8	B	Heptachlor Epoxide	4.186	3.876 E6	7.4	98	-0.02	4.54- 4.64
9	B	gamma-Chlordane	4.251	3.744 E6	11.9	95	-0.02	4.72- 4.80
10	B	alpha-Chlordane	4.158	3.820 E6	8.1	98	-0.02	4.89- 4.99
11	A	Endosulfan I	4.027	3.765 E6	6.5	100	-0.02	5.09- 5.17
12	B	4,4'-DDE	3.295	2.805 E6	14.9	93	-0.02	5.01- 5.08
13	MA	Dieldrin	4.082	3.616 E6	11.4	96	-0.02	5.43- 5.50
14	MA	Endrin	3.721	3.537 E6	4.9	102	-0.02	5.76- 5.86
15	A	4,4'-DDD	2.934	2.577 E6	12.2	99	-0.03	5.90- 5.97
16	B	Endosulfan II	3.754	3.360 E6	10.5	99	-0.02	6.11- 6.19
17	MA	4,4'-DDT	2.347	2.477 E6	-5.5	110	-0.02	6.30- 6.40
18	B	Endrin Aldehyde	2.736	2.566 E6	6.2	96	-0.02	6.76- 6.84
19	B	Endosulfan Sulfate	3.038	2.694 E6	11.3	94	-0.02	7.47- 7.54
20	A	Methoxychlor	1.386	1.302 E6	6.1	99	-0.02	7.10- 7.20
21		Mirex	3.462	3.273 E6	5.5	98	-0.02	7.30- 7.40
22	B	Endrin Ketone	3.218	2.974 E6	7.6	94	-0.02	7.94- 8.02
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.921 E6	2.3	101	-0.01	9.69- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.153 E6	8.7	100	0.00	2.02- 2.08
2	A	alpha-BHC	4.662	4.437 E6	4.8	103	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.144 E6	6.5	100	0.00	2.79- 2.85
4	MA	Heptachlor	4.228	4.275 E6	-1.1	109	0.00	3.24- 3.30
5	B	beta-BHC	2.077	1.913 E6	7.9	97	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G577-CC525
Lab FileID: 4G22442.D

6	B	delta-BHC	3.718	3.125 E6	15.9	91	0.00	3.17- 3.23
7	MB	Aldrin	4.349	3.851 E6	11.5	101	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	3.651 E6	7.8	98	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	3.678 E6	6.6	100	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	3.721 E6	2.8	104	0.00	4.72- 4.78
11	A	Endosulfan I	3.637	3.509 E6	3.5	103	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.345 E6	5.3	101	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	3.776 E6	4.2	102	0.00	5.18- 5.24
14	MA	Endrin	3.526	3.604 E6	-2.2	109	0.00	5.61- 5.67
15	A	4,4'-DDD	2.743	2.480 E6	9.6	96	-0.01	5.83- 5.89
16	B	Endosulfan II	3.744	3.522 E6	5.9	99	0.00	5.94- 6.00
17	MA	4,4'-DDT	2.401	2.231 E6	7.1	98	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	2.513 E6	3.3	101	0.00	6.46- 6.52
19	B	Endosulfan Sulfate	2.903	2.789 E6	3.9	100	0.00	6.91- 6.97
20	A	Methoxychlor	1.371	1.380 E6	-0.7	103	-0.01	7.47- 7.53
21		Mirex	3.120	3.123 E6	-0.1	103	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.185 E6	-1.1	101	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.728 E6	-0.7	105	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22257.D 4PST525.M Fri Sep 07 12:22:01 2012 RPT1

10.7.7

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G577-CC525
Lab FileID: 4G22453.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g577\4g22453.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g577\4g22453.D\ECD2B.ch
Acq On    :  7 Sep 2012   1:06 pm                    Operator: douglass
Sample    : CC525-25                                 Inst    : GC4G
Misc      : OP59516,g4g577,16.3,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri Sep 07 12:49:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.858 E6	1.0	101	0.01	2.23- 2.29
2	A	alpha-BHC	5.063	5.119 E6	-1.1	98	0.02	2.69- 2.75
3	MA	gamma-BHC	4.868	4.750 E6	2.4	95	0.02	2.99- 3.05
4	MA	Heptachlor	4.562	4.763 E6	-4.4	105	0.02	3.48- 3.55
5	B	beta-BHC	2.375	2.314 E6	2.6	101	0.01	3.07- 3.13
6	B	delta-BHC	3.779	3.763 E6	0.4	91	0.02	3.26- 3.32
7	MB	Aldrin	4.315	4.349 E6	-0.8	99	0.02	3.83- 3.90
8	B	Heptachlor Epoxide	4.186	4.129 E6	1.4	98	0.02	4.56- 4.66
9	B	gamma-Chlordane	4.251	4.050 E6	4.7	96	0.02	4.74- 4.82
10	B	alpha-Chlordane	4.158	4.108 E6	1.2	99	0.02	4.90- 5.01
11	A	Endosulfan I	4.027	4.030 E6	-0.1	100	0.02	5.11- 5.19
12	B	4,4'-DDE	3.295	3.160 E6	4.1	96	0.02	5.02- 5.09
13	MA	Dieldrin	4.082	3.947 E6	3.3	95	0.02	5.45- 5.52
14	MA	Endrin	3.721	3.879 E6	-4.2	105	0.02	5.78- 5.88
15	A	4,4'-DDD	2.934	2.635 E6	10.2	97	0.01	5.91- 5.98
16	B	Endosulfan II	3.754	3.562 E6	5.1	100	0.02	6.13- 6.21
17	MA	4,4'-DDT	2.347	2.550 E6	-8.6	100	0.01	6.31- 6.42
18	B	Endrin Aldehyde	2.736	2.784 E6	-1.8	103	0.01	6.78- 6.85
19	B	Endosulfan Sulfate	3.038	2.739 E6	9.8	92	0.01	7.48- 7.56
20	A	Methoxychlor	1.386	1.452 E6	-4.8	102	0.01	7.11- 7.21
21		Mirex	3.462	3.214 E6	7.2	98	0.01	7.31- 7.41
22	B	Endrin Ketone	3.218	3.011 E6	6.4	94	0.01	7.95- 8.03
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.468 E6	17.5	86	0.00	9.70- 9.77

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.457 E6	-0.1	112	0.00	2.03- 2.09
2	A	alpha-BHC	4.662	5.005 E6	-7.4	110	0.00	2.48- 2.54
3	MA	gamma-BHC	4.434	4.512 E6	-1.8	105	0.00	2.80- 2.86
4	MA	Heptachlor	4.228	4.754 E6	-12.4	119	0.00	3.24- 3.30
5	B	beta-BHC	2.077	1.942 E6	6.5	102	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G577-CC525
Lab FileID: 4G22453.D

6	B	delta-BHC	3.718	3.460 E6	6.9	96	0.00	3.17- 3.23
7	MB	Aldrin	4.349	4.260 E6	2.0	110	0.00	3.60- 3.66
8	B	Heptachlor Epoxide	3.962	4.034 E6	-1.8	110	0.00	4.28- 4.34
9	B	gamma-Chlordane	3.937	4.018 E6	-2.1	110	0.00	4.53- 4.59
10	B	alpha-Chlordane	3.828	4.024 E6	-5.1	113	0.00	4.72- 4.78
11	A	Endosulfan I	3.637	3.764 E6	-3.5	111	0.00	4.80- 4.86
12	B	4,4'-DDE	3.533	3.700 E6	-4.7	111	0.00	4.97- 5.03
13	MA	Dieldrin	3.940	4.159 E6	-5.6	111	0.00	5.18- 5.24
14	MA	Endrin	3.526	4.006 E6	-13.6	122	0.00	5.62- 5.68
15	A	4,4'-DDD	2.743	2.666 E6	2.8	107	0.00	5.83- 5.89
16	B	Endosulfan II	3.744	3.882 E6	-3.7	111	0.00	5.94- 6.00
17	MA	4,4'-DDT	2.401	2.581 E6	-7.5	108	0.00	6.31- 6.37
18	B	Endrin Aldehyde	2.600	2.795 E6	-7.5	116	0.00	6.47- 6.53
19	B	Endosulfan Sulfate	2.903	2.907 E6	-0.1	108	0.00	6.92- 6.98
20	A	Methoxychlor	1.371	1.508 E6	-10.0	111	0.00	7.47- 7.53
21		Mirex	3.120	3.112 E6	0.3	111	0.00	7.70- 7.76
22	B	Endrin Ketone	3.149	3.266 E6	-3.7	109	0.00	7.78- 7.84
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.443 E6	9.9	99	0.00	9.91- 9.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22304.D 4PST525.M Fri Sep 07 13:20:15 2012 RPT1

10.7.8

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: G4G581-CC525
Lab FileID: 4G22683.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g581\4g22683.D\ECD1A.ch   Vial: 12
Signal #2 : C:\msdchem\1\DATA\4g581\4g22683.D\ECD2B.ch
Acq On    : 13 Sep 2012  12:36 pm                    Operator: douglass
Sample    : CC525-25                                 Inst    : GC4G
Misc      : OP59673,g4g581,15.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Sep 12 11:21:53 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.756 E6	3.6	98	0.00	2.21- 2.27
2	A	alpha-BHC	5.063	5.144 E6	-1.6	99	0.00	2.67- 2.73
3	MA	gamma-BHC	4.868	4.717 E6	3.1	94	0.00	2.97- 3.03
4	MA	Heptachlor	4.562	4.576 E6	-0.3	101	0.00	3.46- 3.53
5	B	beta-BHC	2.375	2.270 E6	4.4	99	0.00	3.05- 3.11
6	B	delta-BHC	3.779	4.119 E6	-9.0	100	0.00	3.24- 3.30
7	MB	Aldrin	4.315	4.228 E6	2.0	96	0.00	3.81- 3.88
8	B	Heptachlor Epoxide	4.186	4.058 E6	3.1	96	0.00	4.54- 4.63
9	B	gamma-Chlordane	4.251	4.012 E6	5.6	95	0.00	4.72- 4.79
10	B	alpha-Chlordane	4.158	4.087 E6	1.7	99	0.00	4.88- 4.98
11	A	Endosulfan I	4.027	4.065 E6	-0.9	101	0.00	5.09- 5.16
12	B	4,4'-DDE	3.295	3.063 E6	7.0	93	0.00	5.00- 5.07
13	MA	Dieldrin	4.082	3.962 E6	2.9	96	0.00	5.43- 5.50
14	MA	Endrin	3.721	3.809 E6	-2.4	103	0.00	5.75- 5.86
15	A	4,4'-DDD	2.934	2.799 E6	4.6	103	0.00	5.89- 5.97
16	B	Endosulfan II	3.754	3.554 E6	5.3	100	0.00	6.11- 6.18
17	MA	4,4'-DDT	2.347	2.291 E6	2.4	90	0.00	6.29- 6.39
18	B	Endrin Aldehyde	2.736	2.795 E6	-2.2	104	0.00	6.75- 6.83
19	B	Endosulfan Sulfate	3.038	2.885 E6	5.0	96	0.00	7.46- 7.53
20	A	Methoxychlor	1.386	1.287 E6	7.1	91	0.00	7.09- 7.19
21		Mirex	3.462	3.200 E6	7.6	98	0.00	7.29- 7.39
22	B	Endrin Ketone	3.218	3.234 E6	-0.5	101	0.00	7.93- 8.01
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.600 E6	13.1	91	0.00	9.68- 9.76

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.442 E6	0.4	112	0.00	2.02- 2.08
2	A	alpha-BHC	4.662	4.998 E6	-7.2	110	0.00	2.47- 2.53
3	MA	gamma-BHC	4.434	4.541 E6	-2.4	106	0.00	2.79- 2.85
4	MA	Heptachlor	4.228	4.536 E6	-7.3	114	0.00	3.24- 3.30
5	B	beta-BHC	2.077	1.905 E6	8.3	100	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G581-CC525
Lab FileID: 4G22683.D

6	B	delta-BHC	3.718	3.750 E6	-0.9	104	0.00	3.16- 3.22
7	MB	Aldrin	4.349	4.200 E6	3.4	109	0.00	3.59- 3.65
8	B	Heptachlor Epoxide	3.962	3.899 E6	1.6	106	0.00	4.27- 4.33
9	B	gamma-Chlordane	3.937	3.883 E6	1.4	106	0.00	4.52- 4.58
10	B	alpha-Chlordane	3.828	3.884 E6	-1.5	109	0.00	4.71- 4.77
11	A	Endosulfan I	3.637	3.663 E6	-0.7	108	0.00	4.79- 4.85
12	B	4,4'-DDE	3.533	3.484 E6	1.4	104	0.00	4.96- 5.02
13	MA	Dieldrin	3.940	4.003 E6	-1.6	107	0.00	5.17- 5.23
14	MA	Endrin	3.526	3.774 E6	-7.0	115	0.00	5.61- 5.67
15	A	4,4'-DDD	2.743	2.643 E6	3.6	106	0.00	5.82- 5.88
16	B	Endosulfan II	3.744	3.753 E6	-0.2	107	0.00	5.93- 5.99
17	MA	4,4'-DDT	2.401	2.122 E6	11.6	89	0.00	6.30- 6.36
18	B	Endrin Aldehyde	2.600	2.735 E6	-5.2	114	0.00	6.45- 6.51
19	B	Endosulfan Sulfate	2.903	2.919 E6	-0.6	109	0.00	6.90- 6.96
20	A	Methoxychlor	1.371	1.266 E6	7.7	93	0.00	7.46- 7.52
21		Mirex	3.120	3.040 E6	2.6	108	0.00	7.69- 7.75
22	B	Endrin Ketone	3.149	3.471 E6	-10.2	116	0.00	7.76- 7.83
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.402 E6	11.4	97	0.00	9.90- 9.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22599.D 4PST525.M Thu Sep 13 13:06:24 2012 RPT1

10.7.9

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G581-CC525
Lab FileID: 4G22694.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4g581\4g22694.D\ECD1A.ch   Vial: 22
Signal #2 : C:\msdchem\1\DATA\4g581\4g22694.D\ECD2B.ch
Acq On    : 13 Sep 2012   3:54 pm                    Operator: douglass
Sample    : CC525-10                                 Inst    : GC4G
Misc      : OP59673,g4g581,15.7,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST525.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed Sep 12 11:21:53 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	SAB	Tetrachloro-m-xylene	3.896	3.500 E6	10.2	95	0.00	2.21- 2.27
2	A	alpha-BHC	5.063	4.643 E6	8.3	101	0.00	2.67- 2.73
3	MA	gamma-BHC	4.868	4.214 E6	13.4	94	0.00	2.97- 3.03
4	MA	Heptachlor	4.562	4.219 E6	7.5	101	0.00	3.46- 3.53
5	B	beta-BHC	2.375	2.024 E6	14.8	91	0.00	3.05- 3.11
6	B	delta-BHC	3.779	3.616 E6	4.3	102	0.00	3.24- 3.30
7	MB	Aldrin	4.315	3.908 E6	9.4	98	0.00	3.81- 3.88
8	B	Heptachlor Epoxide	4.186	3.892 E6	7.0	99	0.00	4.54- 4.63
9	B	gamma-Chlordane	4.251	3.828 E6	10.0	97	0.00	4.72- 4.79
10	B	alpha-Chlordane	4.158	3.984 E6	4.2	102	0.00	4.88- 4.98
11	A	Endosulfan I	4.027	4.002 E6	0.6	106	0.00	5.09- 5.16
12	B	4,4'-DDE	3.295	2.770 E6	15.9	92	0.00	5.00- 5.07
13	MA	Dieldrin	4.082	3.669 E6	10.1	97	0.00	5.42- 5.49
14	MA	Endrin	3.721	3.517 E6	5.5	102	0.00	5.75- 5.86
15	A	4,4'-DDD	2.934	2.687 E6	8.4	103	0.00	5.90- 5.97
16	B	Endosulfan II	3.754	3.560 E6	5.2	105	0.00	6.10- 6.18
17	MA	4,4'-DDT	2.347	2.155 E6	8.2	96	0.00	6.29- 6.39
18	B	Endrin Aldehyde	2.736	2.743 E6	-0.3	103	0.00	6.75- 6.83
19	B	Endosulfan Sulfate	3.038	2.925 E6	3.7	102	0.00	7.46- 7.53
20	A	Methoxychlor	1.386	1.183 E6	14.6	90	0.00	7.09- 7.19
21		Mirex	3.462	3.292 E6	4.9	99	0.00	7.29- 7.39
22	B	Endrin Ketone	3.218	3.554 E6	-10.4	112	0.00	7.93- 8.01
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.991	2.593 E6	13.3	90	0.00	9.68- 9.76

***** Signal #2 *****

1	SAB	Tetrachloro-m-xylene	3.455	3.306 E6	4.3	105	0.00	2.02- 2.08
2	A	alpha-BHC	4.662	4.587 E6	1.6	106	0.00	2.47- 2.53
3	MA	gamma-BHC	4.434	4.279 E6	3.5	104	0.00	2.79- 2.85
4	MA	Heptachlor	4.228	4.312 E6	-2.0	110	0.00	3.23- 3.29
5	B	beta-BHC	2.077	1.918 E6	7.7	97	0.00	2.87- 2.93

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: G4G581-CC525
Lab FileID: 4G22694.D

6	B	delta-BHC	3.718	3.590 E6	3.4	105	0.00	3.16- 3.22
7	MB	Aldrin	4.349	4.075 E6	6.3	106	0.00	3.59- 3.65
8	B	Heptachlor Epoxide	3.962	3.751 E6	5.3	100	0.00	4.27- 4.33
9	B	gamma-Chlordane	3.937	3.768 E6	4.3	103	0.00	4.52- 4.58
10	B	alpha-Chlordane	3.828	3.800 E6	0.7	106	0.00	4.71- 4.77
11	A	Endosulfan I	3.637	3.582 E6	1.5	105	0.00	4.79- 4.85
12	B	4,4'-DDE	3.533	3.295 E6	6.7	100	0.00	4.96- 5.02
13	MA	Dieldrin	3.940	3.784 E6	4.0	103	0.00	5.17- 5.23
14	MA	Endrin	3.526	3.647 E6	-3.4	110	0.00	5.60- 5.66
15	A	4,4'-DDD	2.743	2.491 E6	9.2	97	0.00	5.83- 5.89
16	B	Endosulfan II	3.744	3.783 E6	-1.0	106	0.00	5.93- 5.99
17	MA	4,4'-DDT	2.401	1.964 E6	18.2	87	0.00	6.30- 6.36
18	B	Endrin Aldehyde	2.600	2.732 E6	-5.1	109	0.00	6.45- 6.51
19	B	Endosulfan Sulfate	2.903	3.030 E6	-4.4	109	0.00	6.90- 6.96
20	A	Methoxychlor	1.371	1.163 E6	15.2	87	0.00	7.46- 7.52
21		Mirex	3.120	3.176 E6	-1.8	105	0.00	7.69- 7.75
22	B	Endrin Ketone	3.149	3.760 E6	-19.4	119	0.00	7.76- 7.83
23	L8	Toxaphene{A}		----------NA----------				
24	L8	Toxaphene{B}		----------NA----------				
25	L8	Toxaphene{C}		----------NA----------				
26	L8	Toxaphene{D}		----------NA----------				
27	L8	Toxaphene{E}		----------NA----------				
28		Chlordane {A}		----------NA----------				
29		Chlordane {B}		----------NA----------				
30		Chlordane {C}		----------NA----------				
31		Chlordane {D}		----------NA----------				
32		Chlordane {E}		----------NA----------				
33	SA	Decachlorobiphenyl	2.710	2.431 E6	10.3	93	0.00	9.90- 9.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g22442.D 4PST525.M Thu Sep 13 16:14:06 2012 RPT1

10.7.10 10

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICC4548
Lab FileID: EF111306.D

Response Factor Report gcef

Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 09:06:55 2012
Response via : Initial Calibration

Calibration Files
3000=EF111304.D 2000=EF111305.D 1000=EF111306.D 500 =EF111307.D
250 =EF111308.D 50 =EF111309.D

	Compound	3000	2000	1000	500	250	50	Avg		%RSD
1) S	Tetrachloro-m-xylen	9.118	8.400	7.757	7.559	7.279	7.378	7.915	E3	8.98
2)	AR1221-A			1.466				1.466	E2	0.00
3)	AR1221-B			1.426				1.426	E2	0.00
4)	AR1221-C			4.871				4.871	E2	0.00
5)	AR1221-D			1.203				1.203	E2	0.00
6)	AR1221-E			6.481				6.481	E1	0.00
7)	AR1232-A			3.976				3.976	E2	0.00
8)	AR1232-B			2.417				2.417	E2	0.00
9)	AR1232-C			4.176				4.176	E2	0.00
10)	AR1232-D			2.733				2.733	E2	0.00
11)	AR1232-E			1.463				1.463	E2	0.00
12)	AR1242-A			4.423				4.423	E2	0.00
13)	AR1242-B			8.536				8.536	E2	0.00
14)	AR1242-C			6.020				6.020	E2	0.00
15)	AR1242-D			3.302				3.302	E2	0.00
16)	AR1242-E			5.319				5.319	E2	0.00
17)	AR1248-A			2.111				2.111	E2	0.00
18)	AR1248-B			4.720				4.720	E2	0.00
19)	AR1248-C			9.005				9.005	E2	0.00
20)	AR1248-D			4.952				4.952	E2	0.00
21)	AR1248-E			8.973				8.973	E2	0.00
22)	AR1248-F			7.964				7.964	E2	0.00
23)	AR1248-G			2.383				2.383	E2	0.00
24)	AR1254-A			4.294				4.294	E2	0.00
25)	AR1254-B			1.189				1.189	E3	0.00
26)	AR1254-C			5.719				5.719	E2	0.00
27)	AR1254-D			8.144				8.144	E2	0.00
28)	AR1254-E			5.756				5.756	E2	0.00
29)	AR1254-F			5.516				5.516	E2	0.00
30)	AR1254-G			7.064				7.064	E2	0.00
31)	AR1262-A			5.460				5.460	E2	0.00
32)	AR1262-B			7.402				7.402	E2	0.00
33)	AR1262-C			6.341				6.341	E2	0.00
34)	AR1262-D			1.365				1.365	E3	0.00
35)	AR1262-E			5.444				5.444	E2	0.00
36)	AR1268-A			1.518				1.518	E3	0.00
37)	AR1268-B			1.891				1.891	E3	0.00
38)	AR1268-C			1.399				1.399	E3	0.00
39)	AR1268-D			5.602				5.602	E2	0.00
40)	AR1268-E			4.412				4.412	E3	0.00
41)	AR1016-A	3.162	3.129	3.199	3.265	3.272	3.219	3.208	E2	1.75
42)	AR1016-B	4.363	4.431	4.691	4.936	5.168	6.036	4.937	E2	12.51
43)	AR1016-C	9.686	9.380	9.212	9.029	8.712	8.529	9.091	E2	4.70
44)	AR1016-D	6.145	6.238	6.464	6.725	6.647	6.908	6.521	E2	4.51
45)	AR1016-E	3.566	3.514	3.524	3.519	3.309	3.337	3.462	E2	3.16
46)	AR1260-A	9.461	9.353	9.726	9.106	9.249	8.736	9.272	E2	3.62
47)	AR1260-B	4.519	4.523	4.433	4.765	4.626	5.025	4.649	E2	4.66

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICC4548
Lab FileID: EF111306.D

48)		AR1260-C	4.463	4.417	4.555	4.436	4.488	4.558	4.486	E2	1.33
49)		AR1260-D	1.083	1.059	1.088	1.024	1.024	1.002	1.047	E3	3.37
50)		AR1260-E	1.066	1.021	1.019	1.002	0.988	0.983	1.013	E3	2.98
51)	S	Decachlorobiphenyl	1.277	1.282	1.401	1.483	1.415	1.445	1.384	E4	6.20

Signal #2

1)	S	Tetrachloro-m-xylen	1.216	1.116	1.036	1.006	0.982	0.981	1.056	E4	8.81
2)		AR1221-A			1.908				1.908	E2	0.00
3)		AR1221-B			1.715				1.715	E2	0.00
4)		AR1221-C			5.492				5.492	E2	0.00
5)		AR1221-D			1.276				1.276	E2	0.00
6)		AR1221-E			9.265				9.265	E1	0.00
7)		AR1232-A			4.390				4.390	E2	0.00
8)		AR1232-B			4.257				4.257	E2	0.00
9)		AR1232-C			5.802				5.802	E2	0.00
10)		AR1232-D			2.564				2.564	E2	0.00
11)		AR1232-E			1.595				1.595	E2	0.00
12)		AR1242-A			6.368				6.368	E2	0.00
13)		AR1242-B			1.158				1.158	E3	0.00
14)		AR1242-C			5.124				5.124	E2	0.00
15)		AR1242-D			3.464				3.464	E2	0.00
16)		AR1242-E			3.471				3.471	E2	0.00
17)		AR1248-A			2.677				2.677	E2	0.00
18)		AR1248-B			6.629				6.629	E2	0.00
19)		AR1248-C			4.304				4.304	E2	0.00
20)		AR1248-D			5.391				5.391	E2	0.00
21)		AR1248-E			8.946				8.946	E2	0.00
22)		AR1248-F			6.545				6.545	E2	0.00
23)		AR1248-G			3.788				3.788	E2	0.00
24)		AR1254-A			8.769				8.769	E2	0.00
25)		AR1254-B			9.128				9.128	E2	0.00
26)		AR1254-C			5.443				5.443	E2	0.00
27)		AR1254-D			1.290				1.290	E3	0.00
28)		AR1254-E			1.066				1.066	E3	0.00
29)		AR1254-F			6.821				6.821	E2	0.00
30)		AR1254-G			1.153				1.153	E3	0.00
31)		AR1262-A			9.816				9.816	E2	0.00
32)		AR1262-B			1.573				1.573	E3	0.00
33)		AR1262-C			1.213				1.213	E3	0.00
34)		AR1262-D			2.507				2.507	E3	0.00
35)		AR1262-E			1.664				1.664	E3	0.00
36)		AR1268-A			3.325				3.325	E3	0.00
37)		AR1268-B			3.224				3.224	E3	0.00
38)		AR1268-C			2.624				2.624	E3	0.00
39)		AR1268-D			9.251				9.251	E2	0.00
40)		AR1268-E			7.190				7.190	E3	0.00
41)		AR1016-A	3.351	3.344	3.434	3.452	3.504	3.012	3.349	E2	5.27
42)		AR1016-B	6.457	6.518	6.811	6.950	7.110	7.445	6.882	E2	5.41
43)		AR1016-C	1.247	1.235	1.253	1.254	1.240	1.210	1.240	E3	1.32
44)		AR1016-D	5.473	5.430	5.684	5.621	5.554	5.332	5.516	E2	2.35
45)		AR1016-E	3.616	3.608	3.686	3.745	3.726	3.704	3.681	E2	1.55
46)		AR1260-A	1.657	1.612	1.561	1.493	1.461	1.282	1.511	E3	8.85
47)		AR1260-B	9.236	9.042	8.916	8.756	8.661	7.958	8.761	E2	5.06
48)		AR1260-C	8.232	8.033	7.933	7.850	7.796	7.500	7.891	E2	3.11
49)		AR1260-D	2.036	1.971	1.867	1.779	1.755	1.519	1.821	E3	10.07
50)		AR1260-E	1.273	1.236	1.209	1.122	1.119	1.050	1.168	E3	7.23
51)	S	Decachlorobiphenyl	1.791	1.763	1.777	1.771	1.753	1.669	1.754	E4	2.48

(#) = Out of Range

10.7.11 10

Initial Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4548-ICC4548
Lab FileID: EF111306.D

PCB4548.M Thu Aug 09 09:36:35 2012 GCEF

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICV4548
Lab FileID: EF111314.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111314.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111314.D\ECD2B.CH
Acq On : 8 Aug 2012 8:53 pm Operator: gwend
Sample : icv4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
41	AR1016-A	320.776	331.292	-3.3	104	0.00	3.71- 3.77
42	AR1016-B	493.742	520.801	-5.5	111	0.00	4.29- 4.35
43	AR1016-C	909.129	1028.682	-13.2	112	0.00	5.09- 5.15
44	AR1016-D	652.126	724.262	-11.1	112	0.00	5.71- 5.77
45	AR1016-E	346.173	384.178	-11.0	109	0.00	6.10- 6.16
46	AR1260-A	927.170	959.375	-3.5	99	0.00	9.72- 9.78
47	AR1260-B	464.864	483.478	-4.0	109	0.00	9.97-10.03
48	AR1260-C	448.615	462.631	-3.1	102	0.00	10.49-10.55
49	AR1260-D	1.047	1.109 E3	-5.9	102	0.00	11.16-11.22
50	AR1260-E	1.013	1.036 E3	-2.3	102	0.00	11.77-11.83

***** Signal #2 *****

41	AR1016-A	334.935	364.072	-8.7	106	0.00	5.19- 5.25
42	AR1016-B	688.174	749.602	-8.9	110	0.00	6.01- 6.07
43	AR1016-C	1.240	1.398 E3	-12.7	112	0.00	6.95- 7.01
44	AR1016-D	551.557	617.536	-12.0	109	0.00	7.24- 7.30
45	AR1016-E	368.077	401.427	-9.1	109	0.00	8.23- 8.29
46	AR1260-A	1.511	1.649 E3	-9.1	106	0.00	12.29-12.35
47	AR1260-B	876.145	937.722	-7.0	105	0.00	12.50-12.56
48	AR1260-C	789.079	835.393	-5.9	105	0.00	13.16-13.22
49	AR1260-D	1.821	2.004 E3	-10.0	107	0.00	13.73-13.79
50	AR1260-E	1.168	1.259 E3	-7.8	104	0.00	14.55-14.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:32:55 2012 GCEF

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICV4548
Lab FileID: EF111315.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111315.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111315.D\ECD2B.CH
Acq On    :  8 Aug 2012   9:17 pm                    Operator: gwend
Sample    : icv4548-1000                             Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
2	AR1221-A	146.617	139.556	4.8	95	0.00	2.43- 2.63
3	AR1221-B	142.561	114.893	19.4	81	0.00	3.36- 3.56
4	AR1221-C	487.111	496.983	-2.0	102	0.00	3.64- 3.84
5	AR1221-D	120.269	107.292	10.8	89	0.00	4.45- 4.65
6	AR1221-E	64.813	68.426	-5.6	106	0.00	5.02- 5.22
*****	Signal #2 *****						
2	AR1221-A	190.776	174.575	8.5	92	0.00	3.40- 3.60
3	AR1221-B	171.493	171.487	0.0	100	0.00	4.73- 4.93
4	AR1221-C	549.154	557.927	-1.6	102	0.00	5.12- 5.32
5	AR1221-D	127.598	125.116	1.9	98	0.00	6.06- 6.26
6	AR1221-E	92.650	85.913	7.3	93	0.00	6.88- 7.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:00 2012 GCEF

10.7.13 10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICV4548
Lab FileID: EF111316.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111316.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111316.D\ECD2B.CH
Acq On    :  8 Aug 2012   9:41 pm                    Operator: gwend
Sample    : icv4548-1000                             Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
7	AR1232-A	397.596	379.468	4.6	95	0.00	3.65- 3.85
8	AR1232-B	241.682	220.247	8.9	91	0.00	4.22- 4.42
9	AR1232-C	417.585	365.479	12.5	88	0.00	5.02- 5.22
24	AR1254-A	429.376	373.224	13.1	87	0.00	6.76- 6.96
25	AR1254-B	1.189	1.326 E3	-11.5	112	0.00	7.28- 7.48
26	AR1254-C	571.871	586.263	-2.5	103	0.00	7.84- 8.04
27	AR1254-D	814.425	793.125	2.6	97	0.00	8.09- 8.29
28	AR1254-E	575.557	644.029	-11.9	112	0.00	8.68- 8.88
30	AR1254-G	706.401	726.339	-2.8	103	0.00	9.65- 9.85

***** Signal #2 *****

7	AR1232-A	438.993	438.468	0.1	100	0.00	5.13- 5.33
8	AR1232-B	425.725	395.426	7.1	93	0.00	5.94- 6.14
9	AR1232-C	580.238	538.500	7.2	93	0.00	6.88- 7.08
24	AR1254-A	876.851	964.415	-10.0	110	0.00	9.09- 9.29
25	AR1254-B	912.784	891.033	2.4	98	0.00	9.51- 9.71
26	AR1254-C	544.250	509.837	6.3	94	0.00	10.26-10.46
27	AR1254-D	1.290	1.202 E3	6.8	93	0.00	10.52-10.72
28	AR1254-E	1.066	1.067 E3	-0.1	100	0.00	11.03-11.23
30	AR1254-G	1.153	1.125 E3	2.4	98	0.00	12.23-12.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:02 2012 GCEF

10.7.14 10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICV4548
Lab FileID: EF111317.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111317.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111317.D\ECD2B.CH
Acq On    :  8 Aug 2012  10:05 pm                    Operator: gwend
Sample    : icv4548-1000                              Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
12	AR1242-A	442.268	398.560	9.9	90	0.00	4.22- 4.42
13	AR1242-B	853.573	749.987	12.1	88	0.00	5.02- 5.22
14	AR1242-C	602.005	532.236	11.6	88	0.00	5.64- 5.84
15	AR1242-D	330.215	291.527	11.7	88	0.00	6.03- 6.23
16	AR1242-E	531.927	479.882	9.8	90	0.00	6.90- 7.10
31	AR1262-A	546.027	561.614	-2.9	103	0.00	9.06- 9.26
32	AR1262-B	740.244	755.609	-2.1	102	0.00	9.90-10.10
33	AR1262-C	634.103	660.233	-4.1	104	0.00	10.42-10.62
34	AR1262-D	1.365	1.422 E3	-4.2	104	0.00	11.10-11.30
35	AR1262-E	544.422	570.318	-4.8	105	0.00	11.79-11.99

***** Signal #2 *****

12	AR1242-A	636.775	558.058	12.4	88	0.00	5.94- 6.14
13	AR1242-B	1.158	0.995 E3	14.1	86	0.00	6.88- 7.08
14	AR1242-C	512.433	437.493	14.6	85	0.00	7.17- 7.37
15	AR1242-D	346.441	298.319	13.9	86	0.00	7.38- 7.58
16	AR1242-E	347.055	307.729	11.3	89	0.00	8.17- 8.37
31	AR1262-A	981.603	961.800	2.0	98	0.00	11.43-11.63
32	AR1262-B	1.573	1.518 E3	3.5	96	0.00	12.43-12.63
33	AR1262-C	1.213	1.207 E3	0.5	99	0.00	13.09-13.29
34	AR1262-D	2.507	2.388 E3	4.7	95	0.00	13.66-13.86
35	AR1262-E	1.664	1.665 E3	-0.1	100	0.00	14.47-14.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:05 2012 GCEF

10.7.15 10

Initial Calibration Verification

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4548-ICV4548
Lab FileID: EF111318.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111318.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111318.D\ECD2B.CH
Acq On : 8 Aug 2012 10:29 pm Operator: gwend
Sample : icv4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 09:06:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
17	AR1248-A	211.067	229.649	-8.8	109	0.00	4.22- 4.42
18	AR1248-B	471.967	479.857	-1.7	102	0.00	5.01- 5.21
19	AR1248-C	900.454	846.630	6.0	94	0.00	5.63- 5.83
20	AR1248-D	495.195	461.270	6.9	93	0.00	6.02- 6.22
21	AR1248-E	897.311	819.075	8.7	91	0.00	6.89- 7.09
22	AR1248-F	796.417	726.762	8.7	91	0.00	7.28- 7.48
23	AR1248-G	238.265	227.763	4.4	96	0.00	8.09- 8.29
36	AR1268-A	1.518	1.433 E3	5.6	94	0.00	11.79-11.99
37	AR1268-B	1.891	1.975 E3	-4.4	104	0.00	11.87-12.07
38	AR1268-C	1.399	1.262 E3	9.8	90	0.00	12.29-12.49
39	AR1268-D	560.240	497.487	11.2	89	0.00	13.07-13.27

***** Signal #2 *****

17	AR1248-A	267.737	277.334	-3.6	104	0.00	5.93- 6.13
18	AR1248-B	662.945	626.656	5.5	95	0.00	6.87- 7.07
19	AR1248-C	430.437	389.942	9.4	91	0.00	7.59- 7.79
20	AR1248-D	539.137	485.046	10.0	90	0.00	8.16- 8.36
21	AR1248-E	894.646	765.451	14.4	86	0.00	9.09- 9.29
22	AR1248-F	654.547	562.084	14.1	86	0.00	9.59- 9.79
23	AR1248-G	378.761	349.890	7.6	92	0.00	10.52-10.72
36	AR1268-A	3.325	3.087 E3	7.2	93	0.00	14.47-14.67
37	AR1268-B	3.224	3.250 E3	-0.8	101	0.00	14.57-14.77
38	AR1268-C	2.624	2.284 E3	13.0	87	0.00	15.15-15.35
39	AR1268-D	925.087	744.951	19.5	81	0.00	15.79-15.99

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111306.D PCB4548.M Thu Aug 09 09:33:08 2012 GCEF

10.7.16 10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4566-CC4548
Lab FileID: EF112222.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4566\EF112222.D\ECD1A.CH Vial: 53
Signal #2 : C:\HPCHEM\1\DATA\GEF4566\EF112222.D\ECD2B.CH
Acq On    :  5 Sep 2012   8:06 am                    Operator: gwend
Sample    : cc4548-500                               Inst    : gcef
Misc      : OP59397,GEF4566,17.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Fri Aug 31 13:03:50 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.656 E3	15.9	88	0.00	3.02- 3.08
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	315.821	1.5	97	-0.01	3.54- 3.60

10.7.17

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Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4566-CC4548
Lab FileID: EF112222.D

42		AR1016-B	493.742	423.143		14.3	86	0.00	4.10- 4.16
43		AR1016-C	909.129	888.985		2.2	98	0.00	4.88- 4.94
44		AR1016-D	652.126	634.817		2.7	94	0.00	5.49- 5.55
45		AR1016-E	346.173	324.253		6.3	92	0.00	5.87- 5.93
46		AR1260-A	927.170	908.090		2.1	100	0.00	9.46- 9.52
47		AR1260-B	464.864	426.049		8.3	89	0.00	9.70- 9.76
48		AR1260-C	448.615	425.486		5.2	96	0.00	10.22-10.28
49		AR1260-D	1.047	1.027	E3	1.9	100	0.00	10.90-10.96
50		AR1260-E	1.013	0.931	E3	8.1	93	0.00	11.50-11.56
51	S	Decachlorobiphenyl	13.838	13.378	E3	3.3	90	0.00	13.90-13.96

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.758	E3	7.6	97	0.00	4.08- 4.14
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	357.032		-6.6	103	0.00	4.98- 5.04
42		AR1016-B	688.174	675.017		1.9	97	0.00	5.79- 5.85
43		AR1016-C	1.240	1.302	E3	-5.0	104	0.00	6.72- 6.78
44		AR1016-D	551.557	556.787		-0.9	99	0.00	7.00- 7.06
45		AR1016-E	368.077	353.575		3.9	94	-0.01	7.99- 8.05
46		AR1260-A	1.511	1.522	E3	-0.7	102	0.00	12.02-12.08
47		AR1260-B	876.145	823.923		6.0	94	0.00	12.23-12.29

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4566-CC4548
Lab FileID: EF112222.D

48		AR1260-C	789.079	734.214		7.0	94	0.00	12.88-12.94
49		AR1260-D	1.821	1.733	E3	4.8	97	0.00	13.45-13.51
50		AR1260-E	1.168	1.074	E3	8.0	96	0.00	14.27-14.33
51	S	Decachlorobiphenyl	17.541	16.077	E3	8.3	91	0.00	16.89-16.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111307.D PCB4548.M Wed Sep 05 08:29:04 2012 GCEF

10.7.17

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4567-CC4548
Lab FileID: EF112233.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4567\EF112233.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4567\EF112233.D\ECD2B.CH
Acq On    :  5 Sep 2012  12:57 pm                    Operator: gwend
Sample    : cc4548-1000                              Inst    : gcef
Misc      : OP59562,GEF4567,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 05 13:18:33 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.915	6.883 E3	13.0	89	0.00	3.06- 3.12
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	320.776	299.656	6.6	94	0.00	3.58- 3.64

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4567-CC4548
Lab FileID: EF112233.D

42		AR1016-B	493.742	468.578		5.1	100	0.00	4.13- 4.19
43		AR1016-C	909.129	885.054		2.6	96	0.00	4.91- 4.97
44		AR1016-D	652.126	602.386		7.6	93	0.00	5.52- 5.58
45		AR1016-E	346.173	321.766		7.1	91	0.01	5.91- 5.97
46		AR1260-A	927.170	885.532		4.5	91	0.00	9.50- 9.56
47		AR1260-B	464.864	450.008		3.2	102	0.00	9.75- 9.81
48		AR1260-C	448.615	427.176		4.8	94	0.00	10.26-10.32
49		AR1260-D	1.047	1.051	E3	-0.4	97	0.00	10.94-11.00
50		AR1260-E	1.013	0.994	E3	1.9	98	0.00	11.54-11.60
51	S	Decachlorobiphenyl	13.838	13.805	E3	0.2	99	0.00	13.94-14.00

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	10.361	E3	1.9	100	0.00	4.11- 4.17
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	351.606		-5.0	102	0.00	5.01- 5.07
42		AR1016-B	688.174	757.247		-10.0	111	0.00	5.83- 5.89
43		AR1016-C	1.240	1.293	E3	-4.3	103	0.00	6.75- 6.81
44		AR1016-D	551.557	560.412		-1.6	99	0.00	7.03- 7.09
45		AR1016-E	368.077	357.730		2.8	97	0.00	8.02- 8.08
46		AR1260-A	1.511	1.592	E3	-5.4	102	0.00	12.06-12.12
47		AR1260-B	876.145	866.137		1.1	97	0.00	12.27-12.33

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4567-CC4548
Lab FileID: EF112233.D

48		AR1260-C	789.079	748.859		5.1	94	0.00	12.92-12.98
49		AR1260-D	1.821	1.864	E3	-2.4	100	0.00	13.49-13.55
50		AR1260-E	1.168	1.188	E3	-1.7	98	0.00	14.31-14.37
51	S	Decachlorobiphenyl	17.541	17.732	E3	-1.1	100	0.00	16.92-16.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF112233.D PCB4548.M Wed Sep 05 13:20:27 2012 GCEF

10.7.18

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112288.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4568\EF112288.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4568\EF112288.D\ECD2B.CH
Acq On    :  6 Sep 2012   1:50 pm                    Operator: gwend
Sample    : cc4548-500                               Inst    : gcef
Misc      : OP59562,GEF4568,17.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Sep 06 14:11:34 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.915	6.506 E3	17.8	86	0.00	3.05- 3.11
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	320.776	302.923	5.6	93	0.00	3.57- 3.63

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112288.D

42		AR1016-B	493.742	475.157		3.8	96	0.00	4.12- 4.18
43		AR1016-C	909.129	866.251		4.7	96	0.00	4.90- 4.96
44		AR1016-D	652.126	630.116		3.4	94	0.00	5.51- 5.57
45		AR1016-E	346.173	318.007		8.1	90	0.00	5.90- 5.96
46		AR1260-A	927.170	850.364		8.3	93	0.00	9.49- 9.55
47		AR1260-B	464.864	410.094		11.8	86	0.00	9.74- 9.80
48		AR1260-C	448.615	389.028		13.3	88	0.00	10.26-10.32
49		AR1260-D	1.047	0.945	E3	9.7	92	0.00	10.93-10.99
50		AR1260-E	1.013	0.924	E3	8.8	92	0.00	11.54-11.60
51	S	Decachlorobiphenyl	13.838	12.595	E3	9.0	85	0.00	13.95-14.01

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.613	E3	9.0	96	0.00	4.10- 4.16
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	360.974		-7.8	105	0.00	5.01- 5.07
42		AR1016-B	688.174	752.959		-9.4	108	0.00	5.82- 5.88
43		AR1016-C	1.240	1.284	E3	-3.5	102	0.00	6.74- 6.80
44		AR1016-D	551.557	556.321		-0.9	99	0.00	7.03- 7.09
45		AR1016-E	368.077	350.479		4.8	94	0.00	8.02- 8.08
46		AR1260-A	1.511	1.484	E3	1.8	99	0.00	12.06-12.12
47		AR1260-B	876.145	820.311		6.4	94	0.00	12.27-12.33

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112288.D

48		AR1260-C	789.079	734.781		6.9	94	0.00	12.93-12.99
49		AR1260-D	1.821	1.710	E3	6.1	96	0.00	13.50-13.56
50		AR1260-E	1.168	1.058	E3	9.4	94	0.00	14.32-14.38
51	S	Decachlorobiphenyl	17.541	15.964	E3	9.0	90	0.00	16.95-17.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111307.D PCB4548.M Thu Sep 06 14:12:30 2012 GCEF

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112293.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4568\EF112293.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4568\EF112293.D\ECD2B.CH
Acq On    :  6 Sep 2012   4:01 pm                    Operator: gwend
Sample    : cc4548-1000                              Inst    : gcef
Misc      : OP59562,GEF4568,15.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Sep 06 16:24:09 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.915	6.733 E3	14.9	87	0.00	3.04- 3.10
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	320.776	293.436	8.5	92	0.00	3.56- 3.62

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112293.D

42		AR1016-B	493.742	456.871		7.5	97	0.00	4.12- 4.18
43		AR1016-C	909.129	881.653		3.0	96	0.00	4.90- 4.96
44		AR1016-D	652.126	602.476		7.6	93	0.00	5.51- 5.57
45		AR1016-E	346.173	325.246		6.0	92	0.00	5.90- 5.96
46		AR1260-A	927.170	900.496		2.9	93	0.00	9.49- 9.55
47		AR1260-B	464.864	419.472		9.8	95	0.00	9.74- 9.80
48		AR1260-C	448.615	418.803		6.6	92	0.00	10.26-10.32
49		AR1260-D	1.047	1.043	E3	0.4	96	0.00	10.93-10.99
50		AR1260-E	1.013	1.012	E3	0.1	99	0.00	11.54-11.60
51	S	Decachlorobiphenyl	13.838	13.402	E3	3.2	96	0.00	13.94-14.00

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	10.118	E3	4.2	98	0.00	4.10- 4.16
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	345.744		-3.2	101	0.00	5.01- 5.07
42		AR1016-B	688.174	731.918		-6.4	107	0.00	5.82- 5.88
43		AR1016-C	1.240	1.269	E3	-2.3	101	0.00	6.75- 6.81
44		AR1016-D	551.557	549.655		0.3	97	0.00	7.03- 7.09
45		AR1016-E	368.077	345.940		6.0	94	0.00	8.02- 8.08
46		AR1260-A	1.511	1.512	E3	-0.1	97	0.00	12.06-12.12
47		AR1260-B	876.145	805.418		8.1	90	0.00	12.27-12.33

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4568-CC4548
Lab FileID: EF112293.D

48		AR1260-C	789.079	746.074		5.5	94	0.00	12.92-12.98
49		AR1260-D	1.821	1.714	E3	5.9	92	0.00	13.49-13.55
50		AR1260-E	1.168	1.047	E3	10.4	87	0.00	14.31-14.37
51	S	Decachlorobiphenyl	17.541	16.626	E3	5.2	94	0.00	16.94-17.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF112293.D PCB4548.M Thu Sep 06 16:25:13 2012 GCEF

10.7.20

10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4572-CC4548
Lab FileID: EF112517.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4572\EF112517.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\GEF4572\EF112517.D\ECD2B.CH
Acq On    : 12 Sep 2012   8:11 am                    Operator: owenm
Sample    : cc4548-1000                              Inst    : gcef
Misc      : OP59588,GEF4572,16.3,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 12 12:48:04 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.660 E3	15.9	86	0.00	3.25- 3.31
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	288.172	10.2	90	0.00	3.80- 3.86

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4572-CC4548
Lab FileID: EF112517.D

42		AR1016-B	493.742	450.976		8.7	96	0.00	4.37- 4.43
43		AR1016-C	909.129	809.216		11.0	88	0.00	5.18- 5.24
44		AR1016-D	652.126	571.124		12.4	88	0.00	5.81- 5.87
45		AR1016-E	346.173	304.865		11.9	87	0.00	6.20- 6.26
46		AR1260-A	927.170	870.781		6.1	90	0.00	9.86- 9.92
47		AR1260-B	464.864	392.017		15.7	88	0.00	10.10-10.16
48		AR1260-C	448.615	412.551		8.0	91	0.00	10.63-10.69
49		AR1260-D	1.047	0.984	E3	6.0	90	0.00	11.32-11.38
50		AR1260-E	1.013	0.943	E3	6.9	93	0.00	11.93-11.99
51	S	Decachlorobiphenyl	13.838	11.910	E3	13.9	85	0.00	14.36-14.42

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.481	E3	10.2	91	0.00	4.38- 4.44
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	328.346		2.0	96	0.00	5.32- 5.38
42		AR1016-B	688.174	619.442		10.0	91	0.00	6.14- 6.20
43		AR1016-C	1.240	1.185	E3	4.4	95	0.00	7.09- 7.15
44		AR1016-D	551.557	547.042		0.8	96	0.00	7.38- 7.44
45		AR1016-E	368.077	331.643		9.9	90	0.00	8.39- 8.45
46		AR1260-A	1.511	1.324	E3	12.4	85	0.00	12.48-12.54
47		AR1260-B	876.145	712.548		18.7	80	0.00	12.69-12.75

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4572-CC4548
Lab FileID: EF112517.D

48		AR1260-C	789.079	680.302	13.8	86	0.00	13.36-13.42
49		AR1260-D	1.821	1.521 E3	16.5	81	0.00	13.93-13.99
50		AR1260-E	1.168	0.917 E3	21.5#	76	0.00	14.76-14.82
51	S	Decachlorobiphenyl	17.541	14.606 E3	16.7	82	0.00	17.42-17.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF112517.D PCB4548.M Wed Sep 12 12:49:37 2012 GCEF

10.7.21
10

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4572-CC4548
Lab FileID: EF112528.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4572\EF112528.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4572\EF112528.D\ECD2B.CH
Acq On    : 12 Sep 2012   1:11 pm                    Operator: owenm
Sample    : cc4548-500                               Inst    : gcef
Misc      : OP59562,GEF4572,15.3,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 12 13:02:27 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.915	6.598 E3	16.6	87	-0.02	3.27- 3.33
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	320.776	295.066	8.0	90	0.02	3.82- 3.88

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY
Sample: GEF4572-CC4548
Lab FileID: EF112528.D

42		AR1016-B	493.742	489.089		0.9	99	0.02	4.39- 4.45
43		AR1016-C	909.129	819.679		9.8	91	0.02	5.20- 5.26
44		AR1016-D	652.126	625.467		4.1	93	0.02	5.82- 5.88
45		AR1016-E	346.173	316.627		8.5	90	0.03	6.22- 6.28
46		AR1260-A	927.170	900.468		2.9	99	0.02	9.87- 9.93
47		AR1260-B	464.864	428.251		7.9	90	0.02	10.12-10.18
48		AR1260-C	448.615	438.320		2.3	99	0.02	10.65-10.71
49		AR1260-D	1.047	1.038	E3	0.9	101	0.02	11.33-11.39
50		AR1260-E	1.013	0.970	E3	4.2	97	0.01	11.95-12.01
51	S	Decachlorobiphenyl	13.838	13.158	E3	4.9	89	0.00	14.38-14.44

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	10.561	9.757	E3	7.6	97	-0.02	4.40- 4.46
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	334.935	341.087		-1.8	99	0.01	5.33- 5.39
42		AR1016-B	688.174	670.033		2.6	96	0.02	6.16- 6.22
43		AR1016-C	1.240	1.296	E3	-4.5	103	0.02	7.11- 7.17
44		AR1016-D	551.557	599.285		-8.7	107	0.02	7.40- 7.46
45		AR1016-E	368.077	360.253		2.1	96	0.02	8.40- 8.46
46		AR1260-A	1.511	1.494	E3	1.1	100	0.02	12.50-12.56
47		AR1260-B	876.145	818.722		6.6	94	0.02	12.71-12.77

Continuing Calibration Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: GEF4572-CC4548
Lab FileID: EF112528.D

48		AR1260-C	789.079	777.623		1.5	99	0.02	13.38-13.44
49		AR1260-D	1.821	1.736	E3	4.7	98	0.02	13.95-14.01
50		AR1260-E	1.168	1.031	E3	11.7	92	0.02	14.78-14.84
51	S	Decachlorobiphenyl	17.541	17.506	E3	0.2	99	0.00	17.45-17.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF111307.D PCB4548.M Wed Sep 12 13:49:22 2012 GCEF

10.7.22
10

New Jersey

ACCUTEST LABORATORIES

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao
09/13/12 15:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g581\
Data File : 4g22685.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2012 1:06 pm
Operator : douglass
Sample : JB15113-4R
Misc : OP59561,g4g581,15.3,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 13 15:22:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Wed Sep 12 11:21:54 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	2.245	2.050	99377044	96729219	25.510	27.997
Spiked Amount	40.000	Range	30 - 150	Recovery	= 63.78%	69.99%
33) SA Decachlor...	9.712	9.922	201.1E6	164.3E6	67.214	60.612
Spiked Amount	40.000	Range	30 - 150	Recovery	= 168.04%#	151.53%#
Target Compounds						
12) B 4,4'-DDE	5.031	4.986	16286483	9009195	4.943	2.550 #
15) A 4,4'-DDD	5.923	5.845f	12200940	21782980	4.158m	7.940 #
17) MA 4,4'-DDT	6.336	6.326	30728597	34894219	13.093	14.536m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

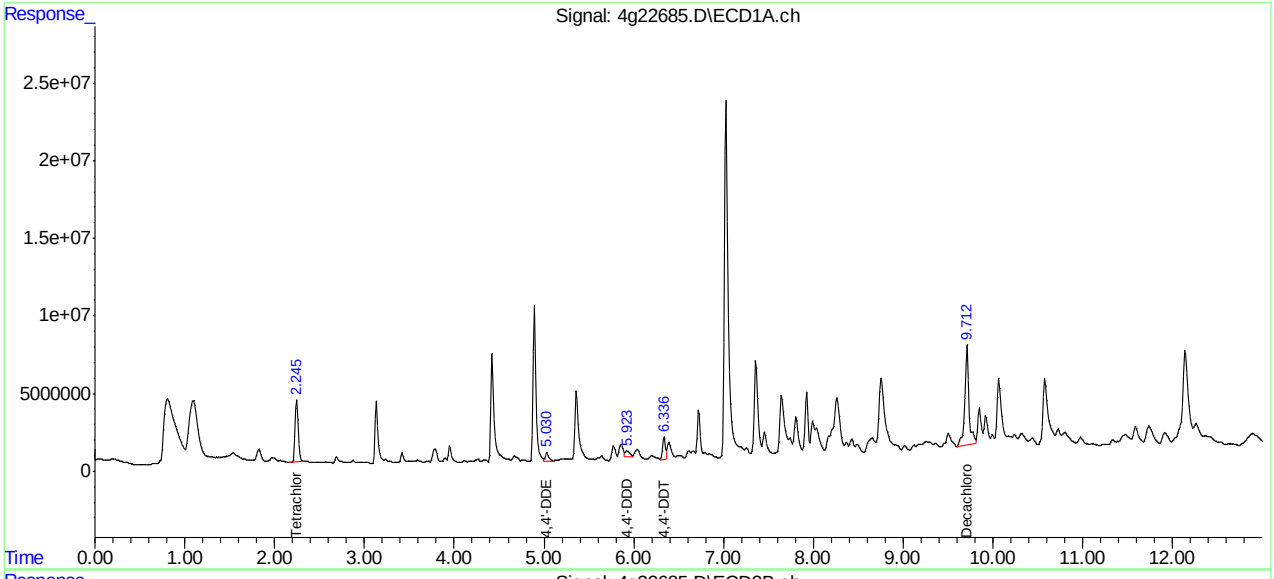
11.1.1
11

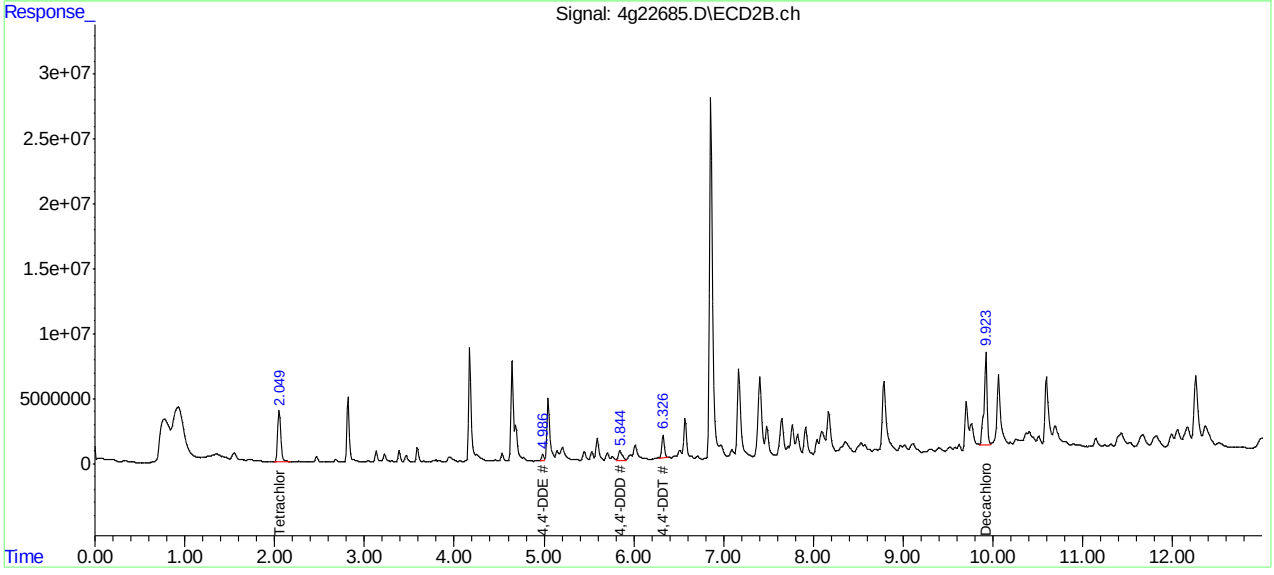
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g581\
Data File : 4g22685.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2012 1:06 pm
Operator : douglass
Sample : JB15113-4R
Misc : OP59561,g4g581,15.3,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 13 15:22:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Wed Sep 12 11:21:54 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
09/12/12 18:37

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4572\EF112527.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4572\EF112527.D\ECD2B.CH
Acq On    : 12 Sep 2012  12:14 pm                    Operator: owenm
Sample    : jb15113-4r                               Inst    : gcef
Misc      : OP59562,GEF4572,15.3,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Sep 12 13:08 2012  Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 12 13:02:27 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.29f	4.43f	228671	541480	28.890	51.272 #
Spiked Amount 40.000			Recovery	=	72.23%	128.18%
51) S Decachlorobiphen	14.41	17.48	386159	836189	27.905m	47.671m#
Spiked Amount 40.000			Recovery	=	69.76%	119.18%
Target Compounds						

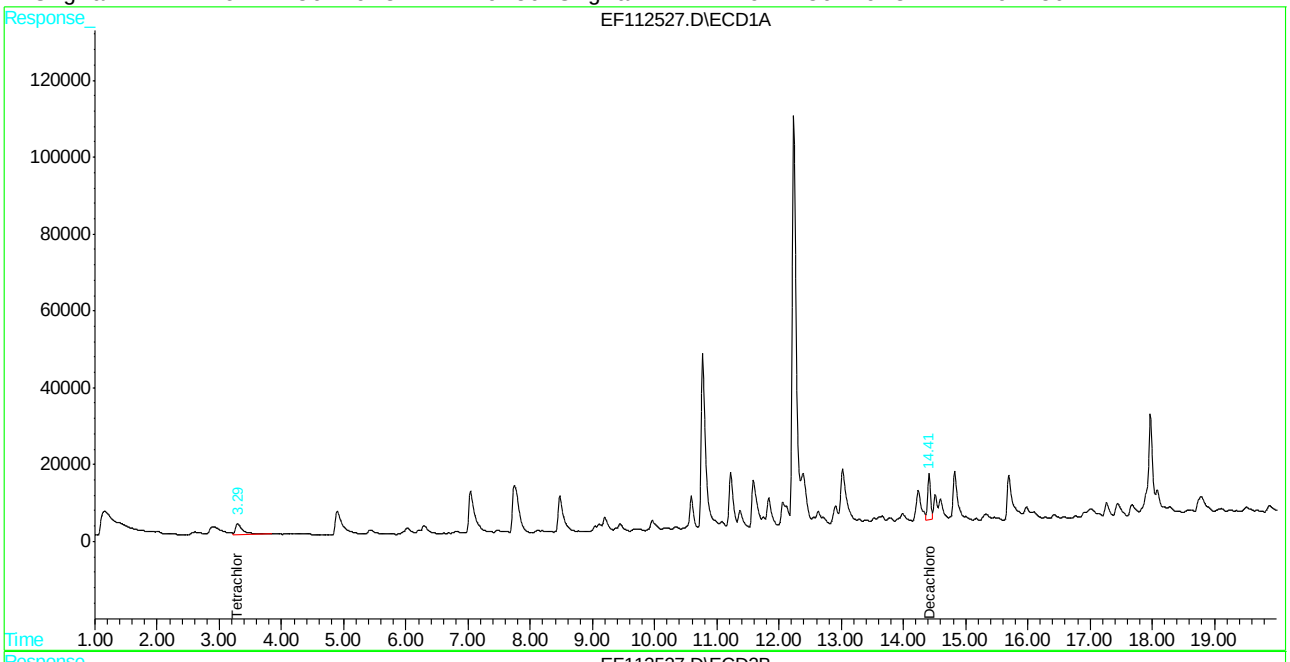
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

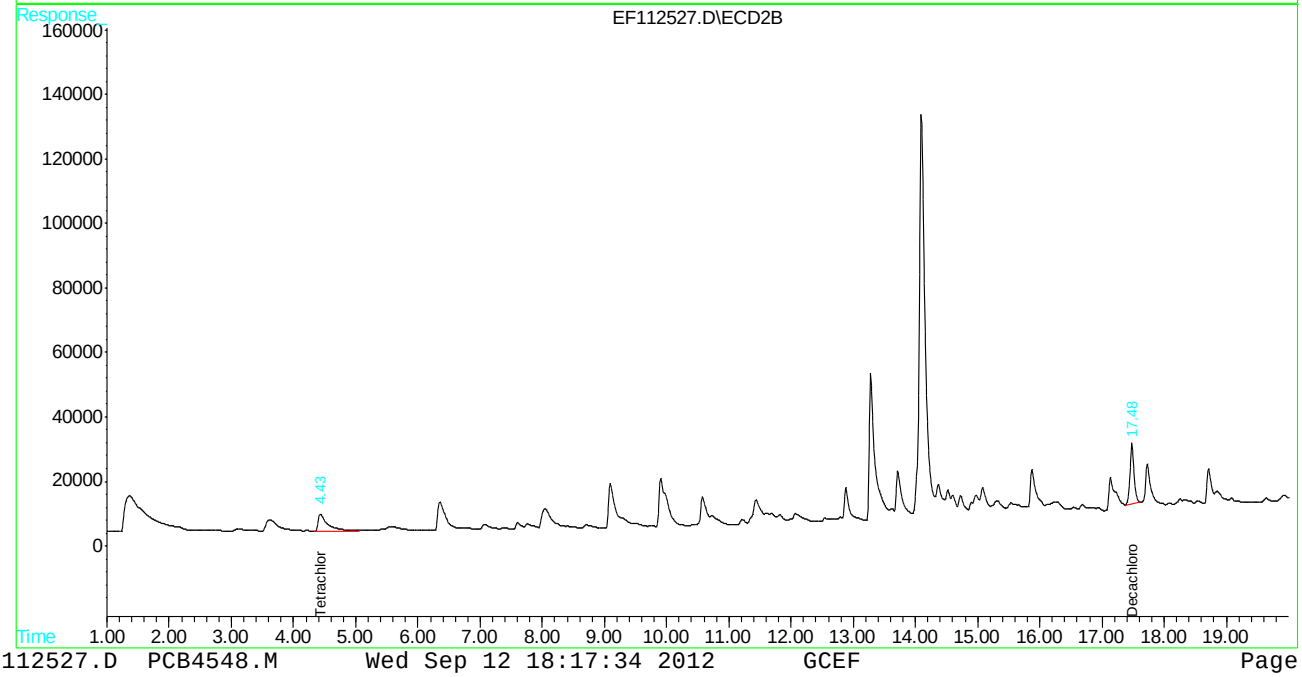
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4572\EF112527.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4572\EF112527.D\ECD2B.CH
Acq On : 12 Sep 2012 12:14 pm Operator: owenm
Sample : jb15113-4r Inst : gcef
Misc : OP59562,GEF4572,15.3,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Sep 12 13:08 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Sep 12 13:02:27 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g575\
Data File : 4g22354.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Sep 2012 1:21 pm
Operator : douglass
Sample : OP59561-MB1
Misc : OP59561,g4g575,15.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 05 15:09:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Mon Aug 27 09:39:39 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	2.263	2.058	169.4E6	155.4E6	43.483	44.986
Spiked Amount	40.000 Range	30 - 150	Recovery	=	108.71%	112.46%
33) SA Decachlor...	9.738	9.941	129.0E6	121.8E6	43.133	44.944
Spiked Amount	40.000 Range	30 - 150	Recovery	=	107.83%	112.36%
Target Compounds						

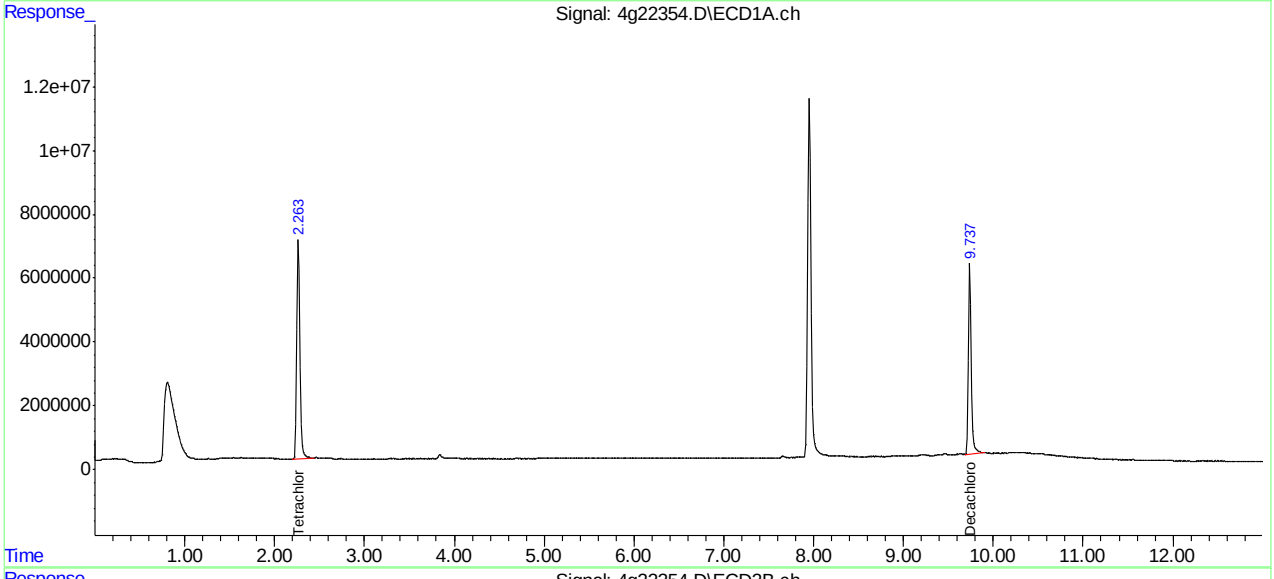
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

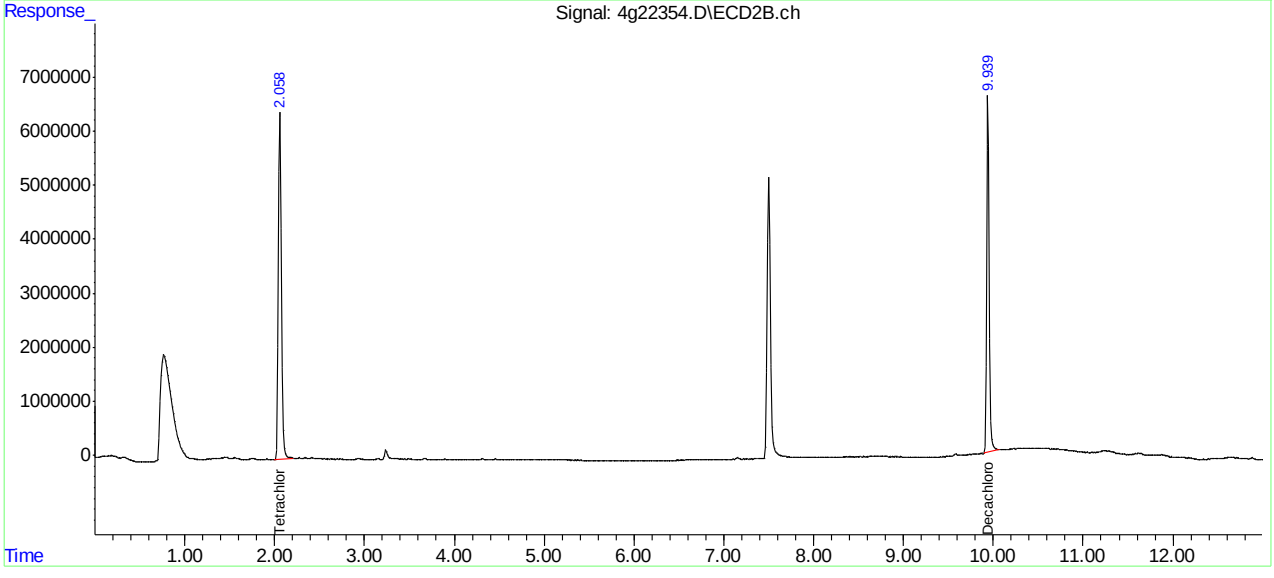
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g575\
Data File : 4g22354.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Sep 2012 1:21 pm
Operator : douglass
Sample : OP59561-MB1
Misc : OP59561,g4g575,15.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 05 15:09:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Mon Aug 27 09:39:39 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4567\EF112229.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF4567\EF112229.D\ECD2B.CH
Acq On    :  5 Sep 2012  10:56 am                    Operator: gwend
Sample    : op59562-mb1                              Inst    : gcef
Misc      : OP59562,GEF4567,17.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Sep  5 13:12 2012  Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 05 11:40:44 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.06	4.13	291491	470791	36.827	44.579
Spiked Amount 40.000			Recovery	=	92.07%	111.45%
51) S Decachlorobiphen	13.95f	16.94f	540897	697391	39.086	39.758
Spiked Amount 40.000			Recovery	=	97.72%	99.40%
Target Compounds						

11.2.2

11

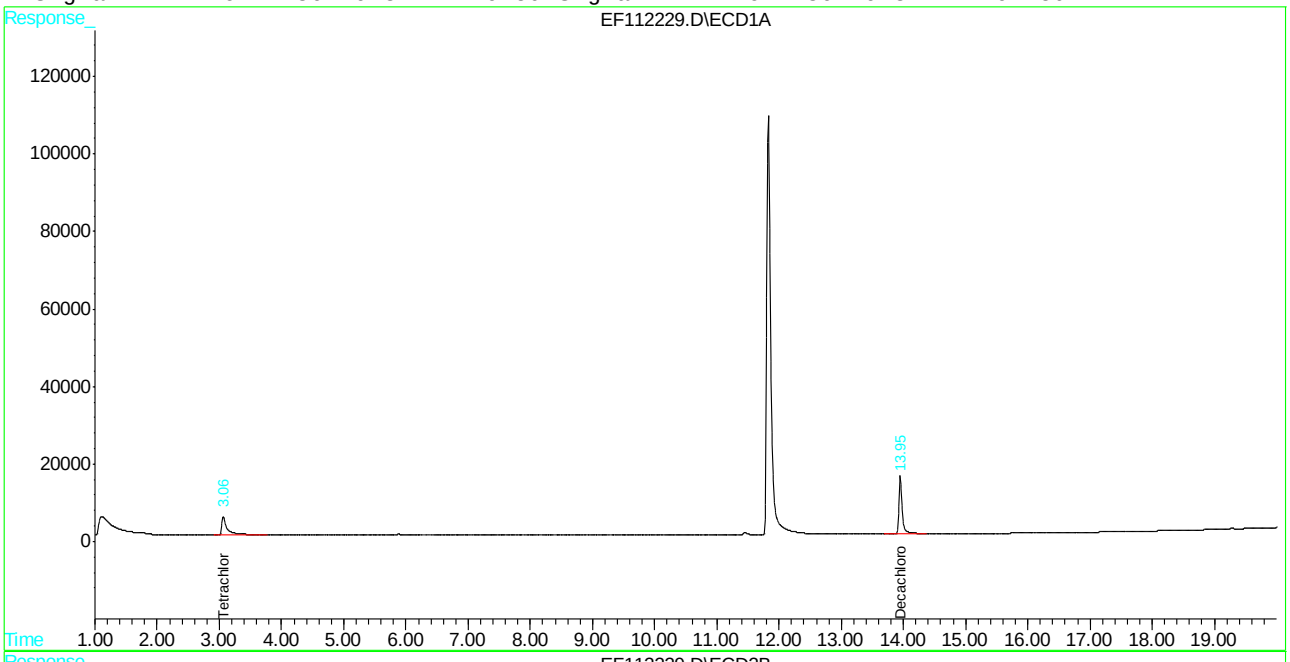
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%  (m)=manual int.
EF112229.D  PCB4548.M      Wed Sep 05 13:12:15 2012      GCEF
```

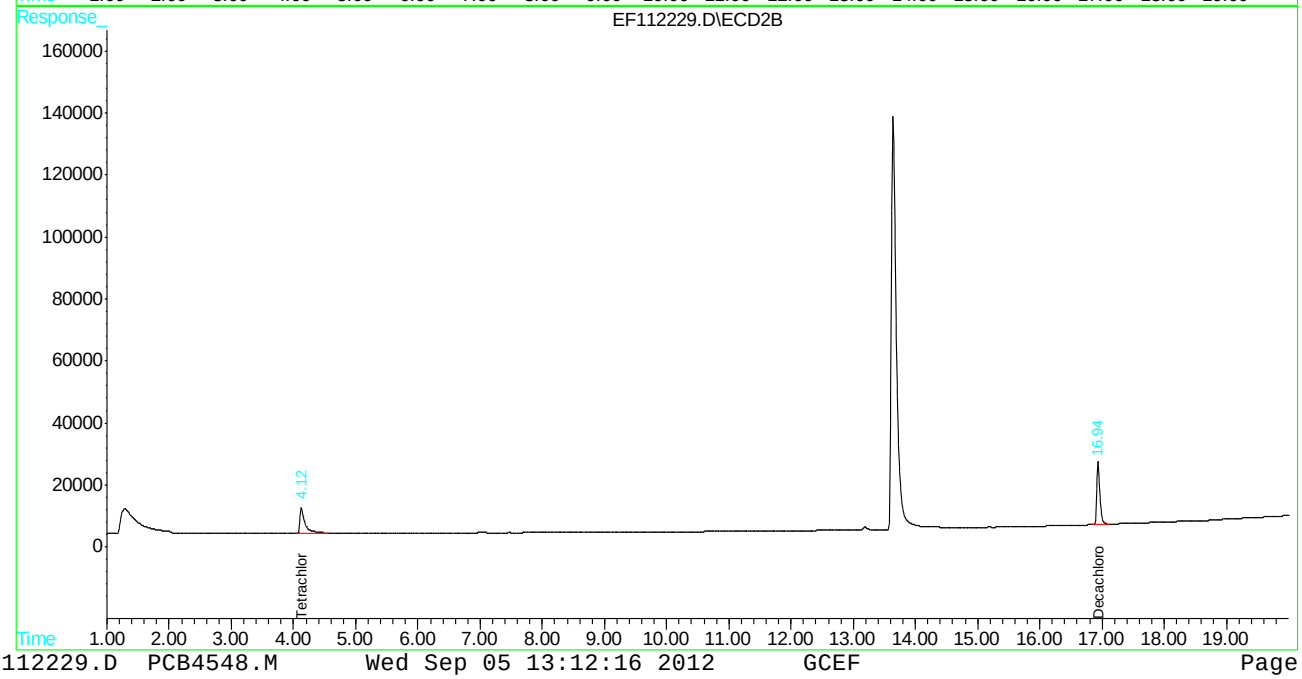
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4567\EF112229.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF4567\EF112229.D\ECD2B.CH
Acq On    :  5 Sep 2012  10:56 am                    Operator: gwend
Sample    : op59562-mb1                              Inst    : gcef
Misc      : OP59562,GEF4567,17.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Sep  5 13:12 2012  Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Sep 05 11:40:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 3:48 pm
Operator : douglass
Sample : ICC525-25
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:02:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	2.374	2.171	95760958	76866195	25.637	22.545
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 64.09%	56.36%
33)	SA Decachlor...	9.925	10.125	71600603	61621472	23.942	23.614
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 59.86%	59.04%
	Target Compounds						
2)	A alpha-BHC	2.849	2.644	130.4E6	113.6E6	25.686	25.026
3)	MA gamma-BHC	3.157	2.970	124.8E6	107.4E6	25.942	24.941
4)	MA Heptachlor	3.671	3.435	113.4E6	99802334	25.822	24.611
5)	B beta-BHC	3.238	3.045	57460801	47485894	25.232	24.461
6)	B delta-BHC	3.439	3.352	103.1E6	89981981	24.618	23.787
7)	MB Aldrin	4.032	3.805	109.9E6	96457322	26.415	24.004
8)	B Heptachlo...	4.793	4.503	105.4E6	91610676	25.985	23.523
9)	B gamma-Chl...	4.964	4.758	105.8E6	91529487	25.833	23.845
10)	B alpha-Chl...	5.146	4.955	103.5E6	89129702	25.860	23.921
11)	A Endosulfan I	5.345	5.035	100.9E6	84586259	24.624	23.519
12)	B 4,4'-DDE	5.243	5.198	82003350	83393251	27.398	24.228
13)	MA Dieldrin	5.688	5.422	103.3E6	93893614	25.829	24.231
14)	MA Endrin	6.038	5.868	92401024	81893779	25.706	24.142
15)	A 4,4'-DDD	6.136	6.068	67682052	62281098	23.668	25.053
16)	B Endosulfa...	6.380	6.196	89112107	87629005	23.964	23.627
17)	MA 4,4'-DDT	6.568	6.559	63607636	59597104	31.253	29.914
18)	B Endrin Al...	7.039	6.726	67411463	60141466	22.997	21.730
19)	B Endosulfa...	7.752	7.180	74767414	67039009	25.741	24.235
20)	A Methoxychlor	7.365	7.723	35441302	33870151	37.986	34.659
21)	Mirex	7.591	7.983	81909780	70336596	24.451	23.375
22)	B Endrin Ke...	8.227	8.057	79908385	74673580	19.885	19.356

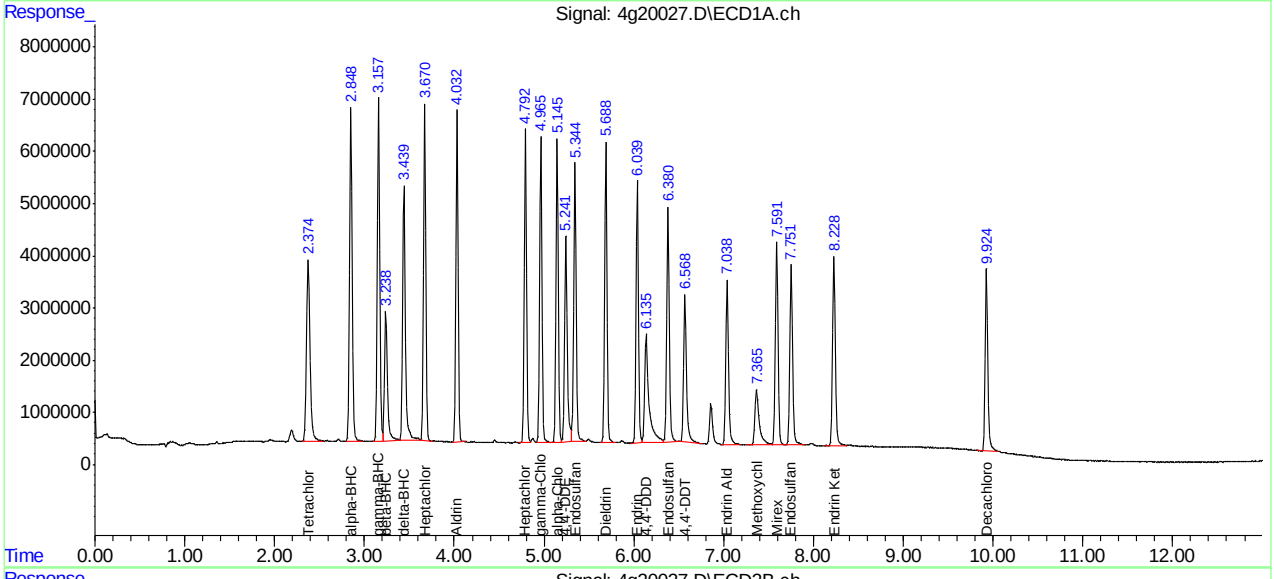
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

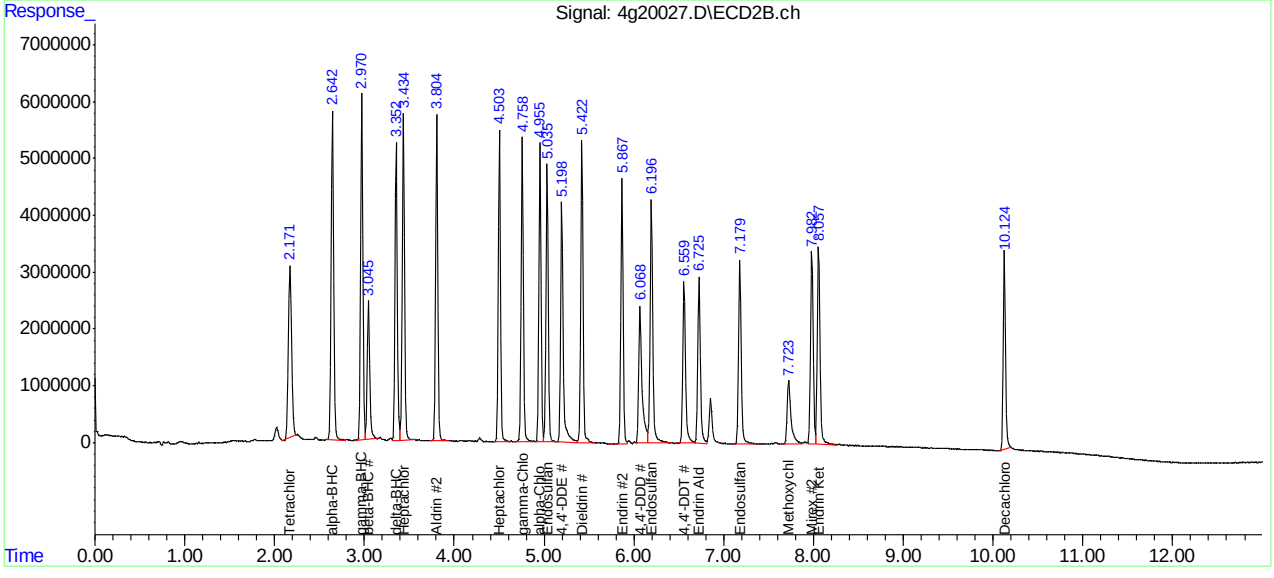
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 3:48 pm
Operator : douglass
Sample : ICC525-25
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:02:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
06/27/12 14:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 4:31 pm
Operator : douglass
Sample : IC525-500
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:07:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	2.373	2.170	251.7E6	208.0E6	67.384	61.017
Spiked Amount	40.000 Range	30 - 150	Recovery	=	168.46%#	152.54%#
33) SA Decachlor...	9.925	10.126	172.8E6	150.5E6	57.779	57.656
Spiked Amount	40.000 Range	30 - 150	Recovery	=	144.45%	144.14%
Target Compounds						
28) Chlordane...	3.581	3.278	66663389	67291242	511.927	549.162
29) Chlordane...	4.184	3.970	90740887	69686846	529.719	491.394
30) Chlordane...	4.965	4.758	343.3E6	260.6E6	528.243	500.808
31) Chlordane...	5.122	4.887	581.1E6	465.8E6	518.600	497.362m
32) Chlordane...	6.281	6.269	75103451	65406525	529.799	510.746

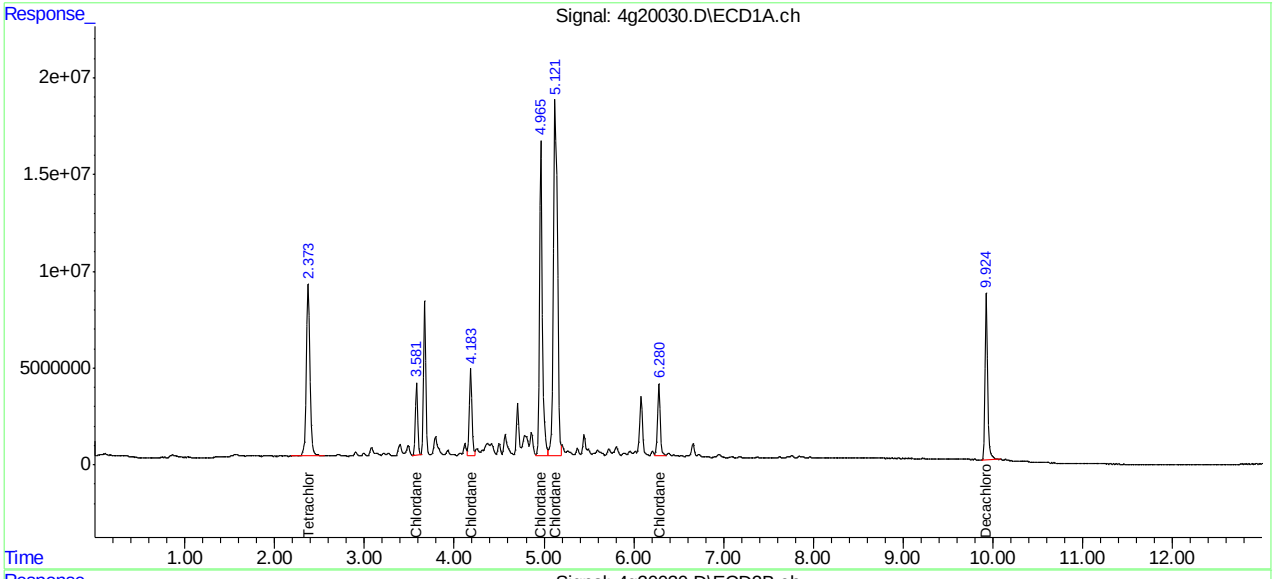
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

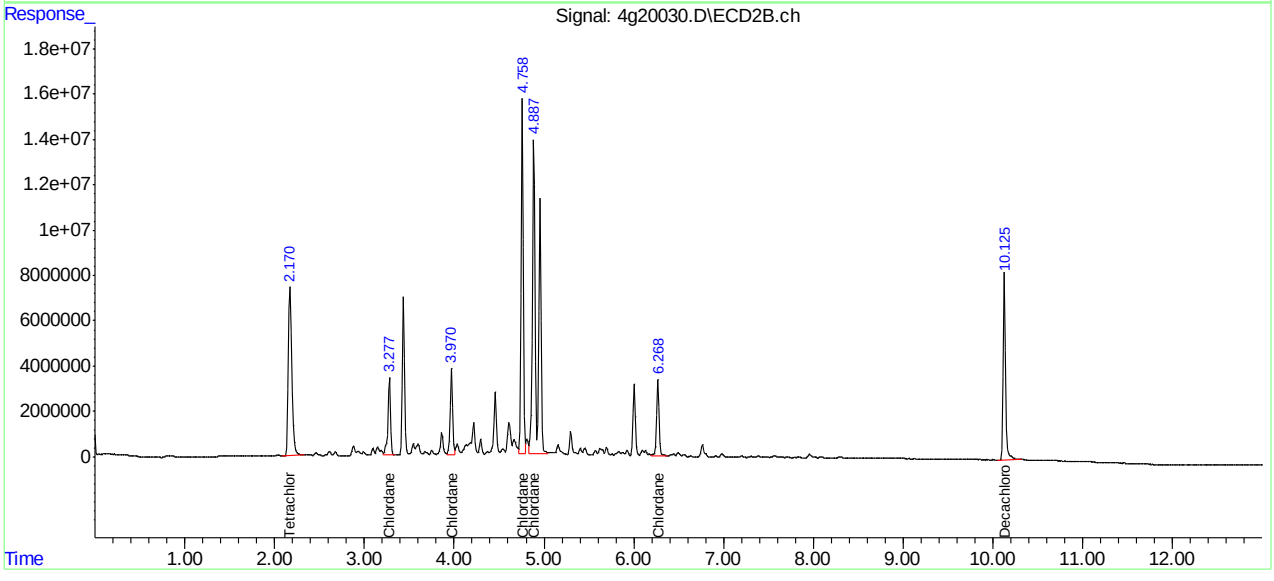
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 4:31 pm
Operator : douglass
Sample : IC525-500
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:07:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 4:45 pm
Operator : douglass
Sample : IC525-500
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:06:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
Target Compounds						
23) L8 Toxaphene{A}	5.918	5.397	51319811	42639493	562.380	566.547
24) L8 Toxaphene{B}	6.370	6.179	94839885	55254920	560.058	551.478
25) L8 Toxaphene{C}	6.904	6.332	64533316	106.5E6	573.524	577.457
26) L8 Toxaphene{D}	7.436	6.751	50824978	56247609	604.893	571.462
27) L8 Toxaphene{E}	7.602	7.580	62158581	48114158	589.730	573.142

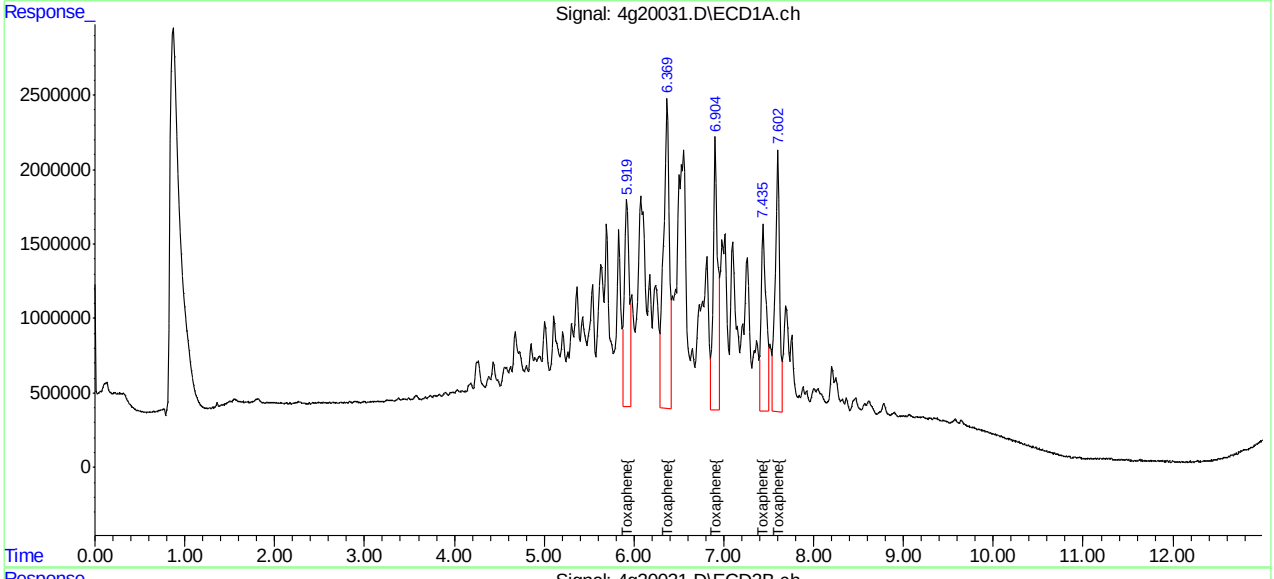
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

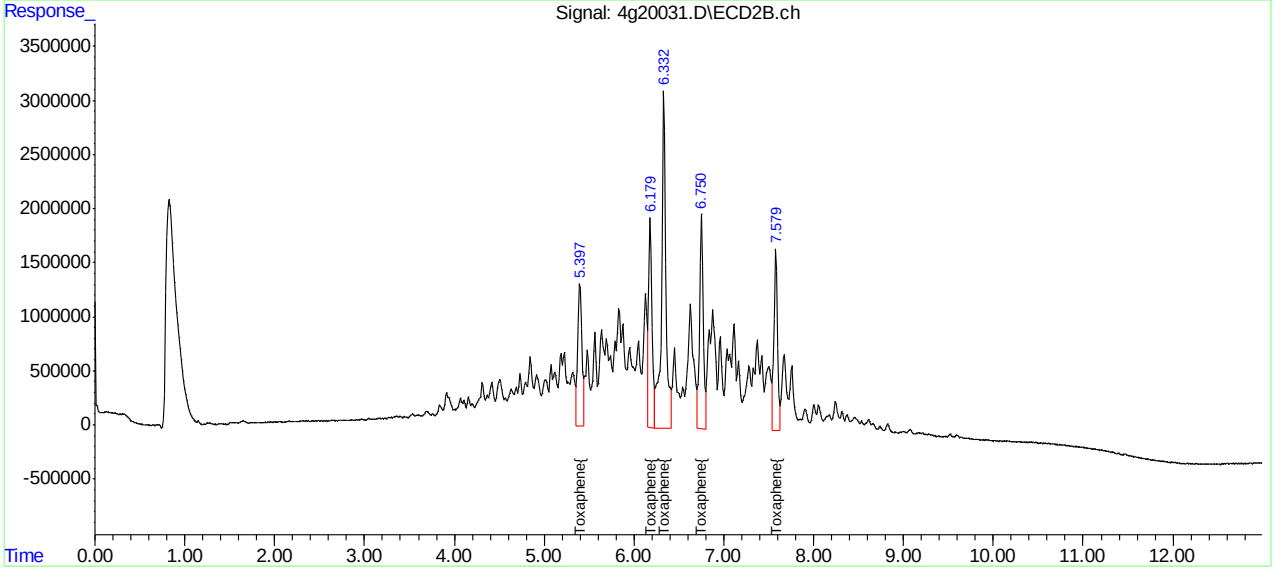
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g525\
Data File : 4g20031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2012 4:45 pm
Operator : douglass
Sample : IC525-500
Misc : OP57916,g4g525,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 08:06:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\4PST525.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 22 15:08:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
08/10/12 09:55

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111306.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111306.D\ECD2B.CH
Acq On : 8 Aug 2012 5:40 pm Operator: gwend
Sample : icc4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:56 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:48:47 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.21	4.30	310285	414568	27.719	37.452	#
Spiked Amount	40.000			Recovery	=	69.30%	93.63%	
51) S	Decachlorobiphen	14.22	17.23	560346	710739	36.855	53.018	#
Spiked Amount	40.000			Recovery	=	92.14%	132.55%	
	Target Compounds							
41)	AR1016-A	3.75	5.22	319911	343392	850.582m	1014.420	
42)	AR1016-B	4.32	6.04	469074	681131	791.188	1023.794	#
43)	AR1016-C	5.12	6.98	921171	1253387	844.249	1091.362	#
44)	AR1016-D	5.74	7.26	646423	568374	751.326	1142.232	#
45)	AR1016-E	6.12	8.27	352426	368597	830.695	1071.805	#
46)	AR1260-A	9.75	12.33	972581	1560590	989.290	1281.590	#
47)	AR1260-B	10.00	12.54	443292	891602	749.951	1319.526	#
48)	AR1260-C	10.52	13.20	455488	793255	1032.175	1204.320	
49)	AR1260-D	11.20	13.77	1087888	1867441	807.253	1365.274	#
50)	AR1260-E	11.81	14.59	1018740	1209236	836.749m	1568.550	#

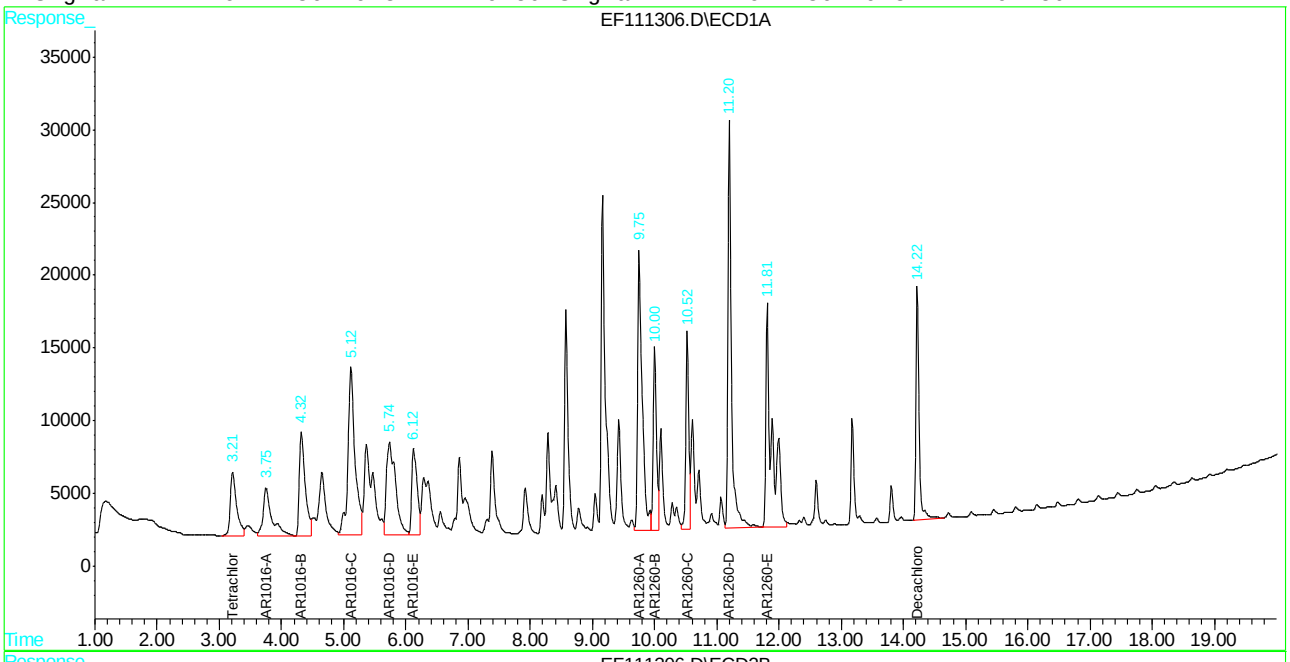
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF111306.D PCB4548.M Thu Aug 09 09:30:21 2012 GCEF

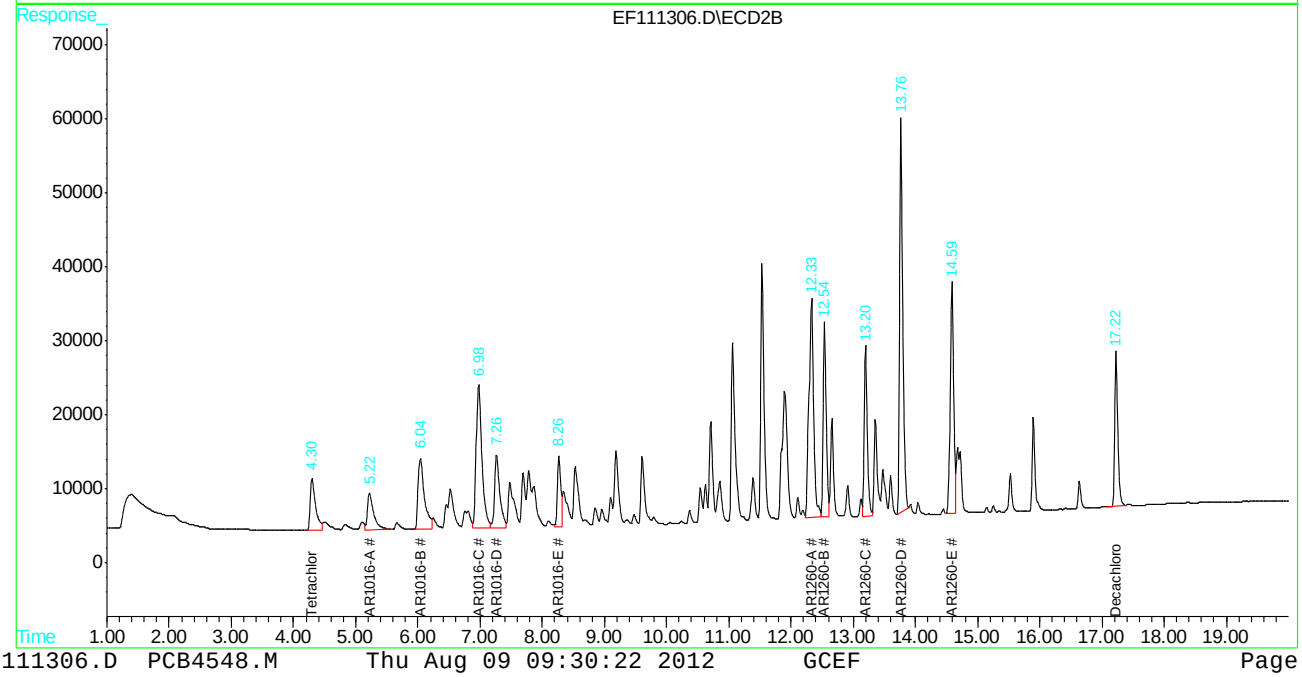
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111306.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111306.D\ECD2B.CH
Acq On : 8 Aug 2012 5:40 pm Operator: gwend
Sample : icc4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:56 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:48:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111310.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111310.D\ECD2B.CH
Acq On : 8 Aug 2012 7:16 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:25 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:25:14 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.21	4.29	388723	438147	34.726	39.583	
Spiked Amount	40.000			Recovery	=	86.81%	98.96%	
51) S	Decachlorobiphen	14.22	17.22	526531	731668	34.631	54.579	#
Spiked Amount	40.000			Recovery	=	86.58%	136.45%	
	Target Compounds							
2)	AR1221-A	2.54	3.50	146617	190776	923.840	919.482	
3)	AR1221-B	3.46	4.83	142561	171493	794.205	975.719	
4)	AR1221-C	3.75	5.22	487111	549154	822.624	1010.117	
5)	AR1221-D	4.55	6.16	120269	127598	990.569	1256.477	#
6)	AR1221-E	5.12	6.98	64813	92650	751.284	1048.690	#
24)	AR1254-A	6.86	9.19	429376	876851	872.562	1189.244	#
25)	AR1254-B	7.39	9.61	1188730	912784	806.708	1155.101	#
26)	AR1254-C	7.94	10.37	571871	544250	834.258	1078.404	#
27)	AR1254-D	8.19	10.63	814425	1290462	871.888	1151.383	#
28)	AR1254-E	8.78	11.14	575557	1066355	871.154	1261.886	#
29)	AR1254-F	9.17	11.91	551551	682140	742.624	902.899	
30)	AR1254-G	9.76	12.33	706401	1153294	679.703	1147.200	#

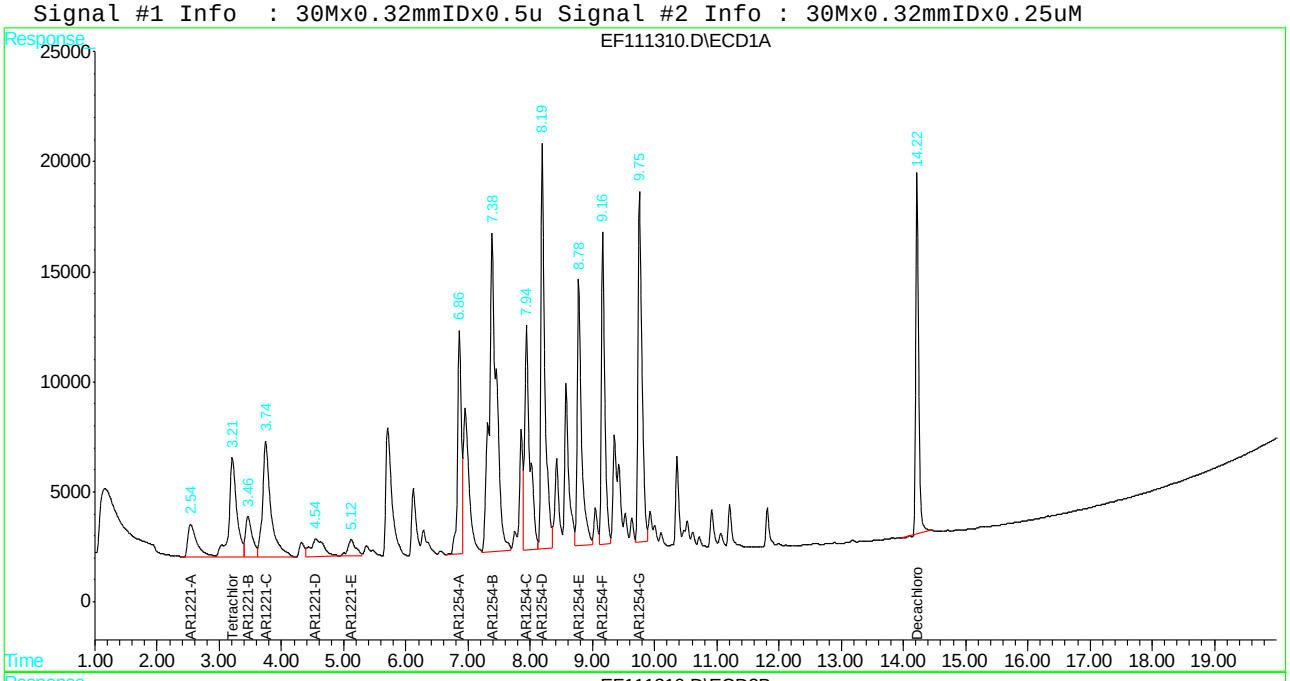
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF111310.D PCB4548.M Thu Aug 09 09:30:54 2012 GCEF

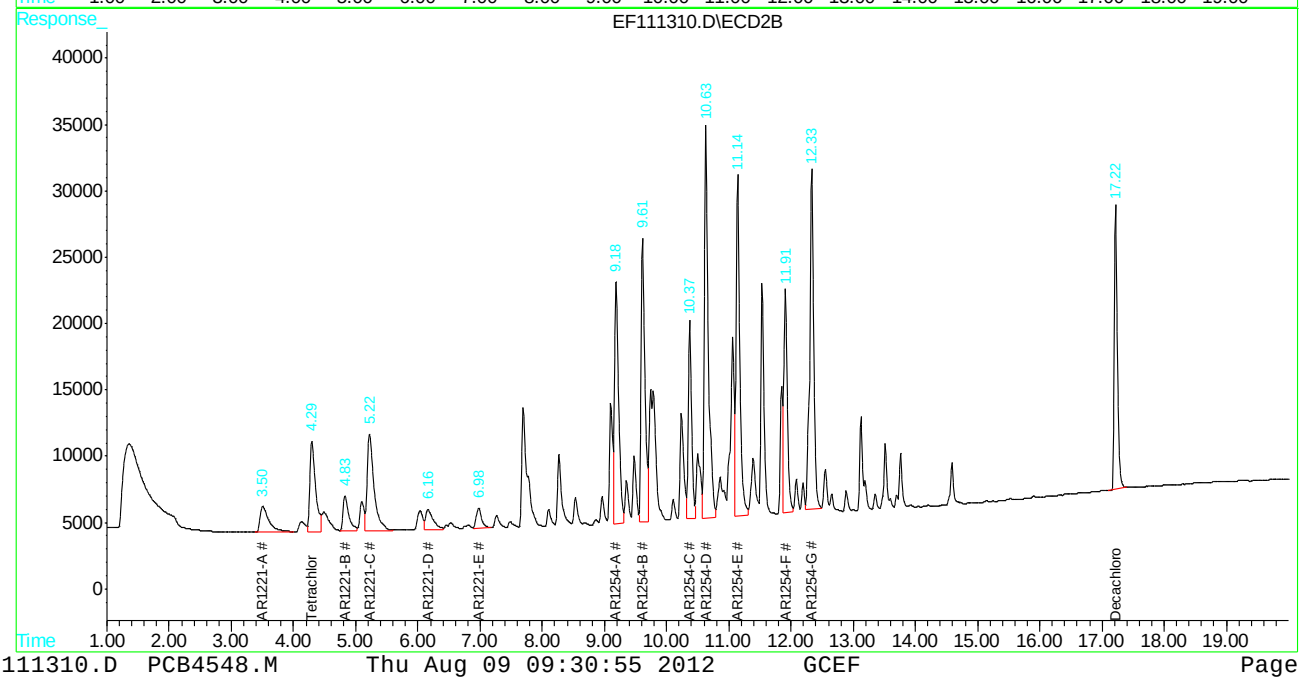
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111310.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111310.D\ECD2B.CH
Acq On : 8 Aug 2012 7:16 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:25 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:25:14 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
08/10/12 09:55

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111311.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111311.D\ECD2B.CH
Acq On : 8 Aug 2012 7:40 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:35 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:34:07 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.21	4.30	337439	416311	30.145	37.610	
Spiked Amount	40.000			Recovery	=	75.36%	94.03%	
51) S	Decachlorobiphen	14.23	17.23	514158	712943	33.817	53.183	#
Spiked Amount	40.000			Recovery	=	84.54%	132.96%	
	Target Compounds							
7)	AR1232-A	3.75	5.22	397596	438993	787.430	955.457	
8)	AR1232-B	4.32	6.04	241682	425725	793.482	992.115	#
9)	AR1232-C	5.12	6.98	417585	580238	769.245	1029.153	#
10)	AR1232-D	5.74	7.27	273274	256374	690.011	1041.543	#
11)	AR1232-E	6.13	8.27	146313	159456	759.013	1023.246	#
31)	AR1262-A	9.16	11.53	546027	981603	947.028m	1049.097	
32)	AR1262-B	10.00	12.54	740244	1573053	724.344	1181.228	#
33)	AR1262-C	10.52	13.20	634103	1213075	850.322	1141.221	#
34)	AR1262-D	11.20	13.77	1364933	2507048	666.460	1214.317	#
35)	AR1262-E	11.89	14.58	544422	1664040	642.827	1355.157	#

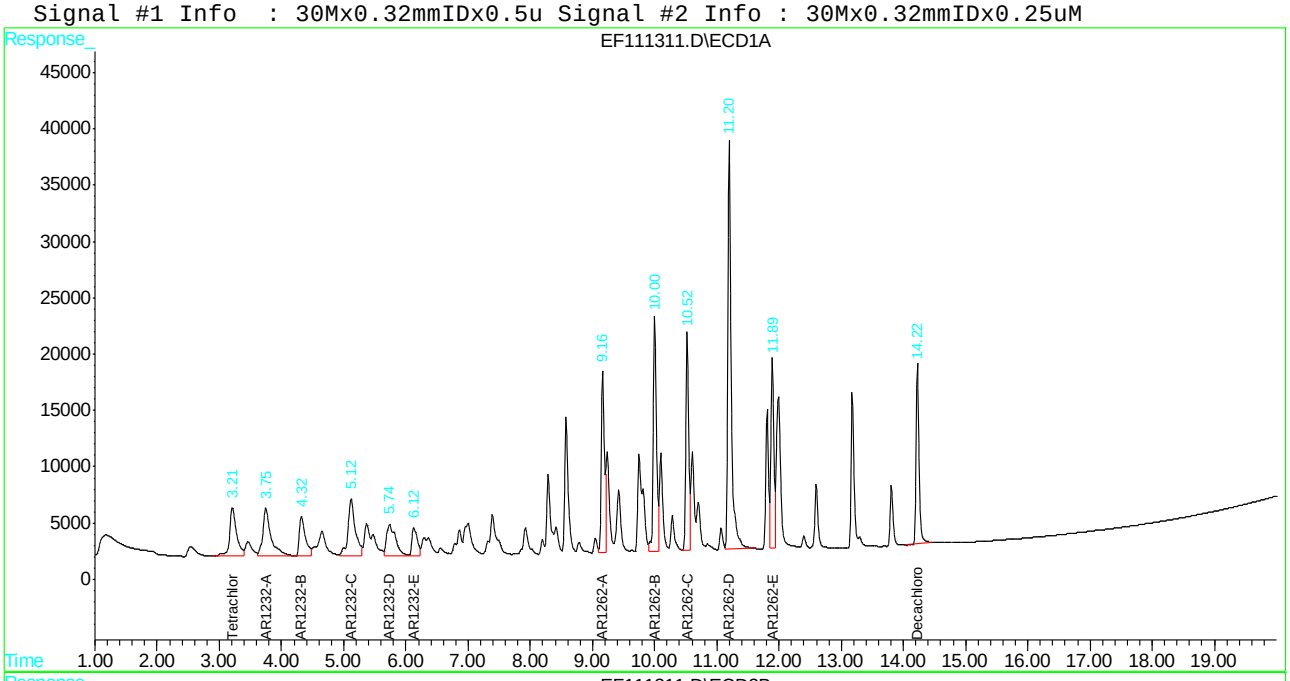
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF111311.D PCB4548.M Thu Aug 09 09:31:00 2012 GCEF

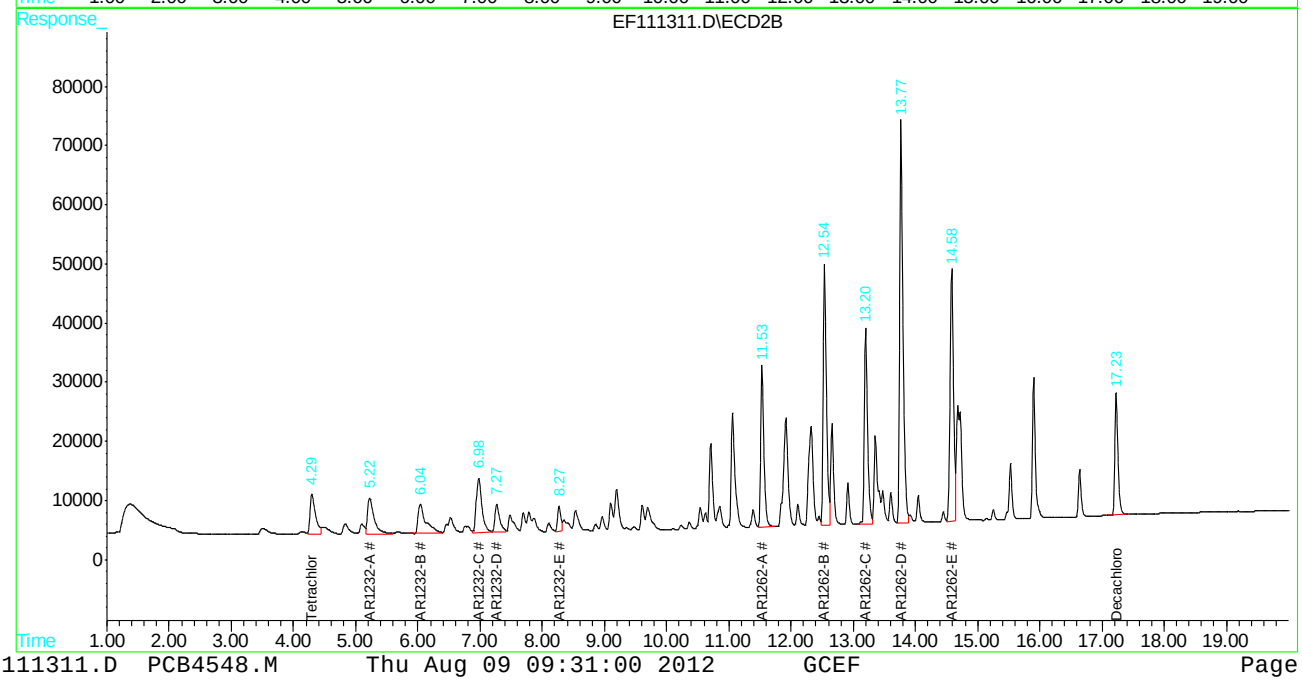
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111311.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111311.D\ECD2B.CH
Acq On    :  8 Aug 2012   7:40 pm                    Operator: gwend
Sample    : ic4548-1000                              Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Aug  9  8:35 2012  Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 08:34:07 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111312.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111312.D\ECD2B.CH
Acq On : 8 Aug 2012 8:05 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:40 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:40:31 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.21	4.30	347810	474708	31.071	42.885	#
Spiked Amount	40.000			Recovery	=	77.68%	107.21%	
51) S	Decachlorobiphen	14.22	17.22	1727416	2284101	113.615	170.384	#
Spiked Amount	40.000			Recovery	=	284.04%	425.96%	
	Target Compounds							
12)	AR1242-A	4.32	6.05	442268	636775	807.503	1035.206	#
13)	AR1242-B	5.12	6.98	853573	1158039	854.518	1088.598	#
14)	AR1242-C	5.74	7.27	602005	512433	795.405	1118.200	#
15)	AR1242-D	6.13	7.48	330215	346441	863.736	1121.299	#
16)	AR1242-E	7.00	8.27	531927	347055	848.510	1074.385	#
36)	AR1268-A	11.89	14.57	1518143	3324524	758.750	1271.687	#
37)	AR1268-B	11.97	14.68	1890620	3224181	618.271	1285.764	#
38)	AR1268-C	12.39	15.25	1399466	2624185	686.198	1282.836	#
39)	AR1268-D	13.18	15.89	560240	925087	816.822	1375.634	#
40)	AR1268-E	13.80	16.64	4412177	7189607	717.874	1215.979	#

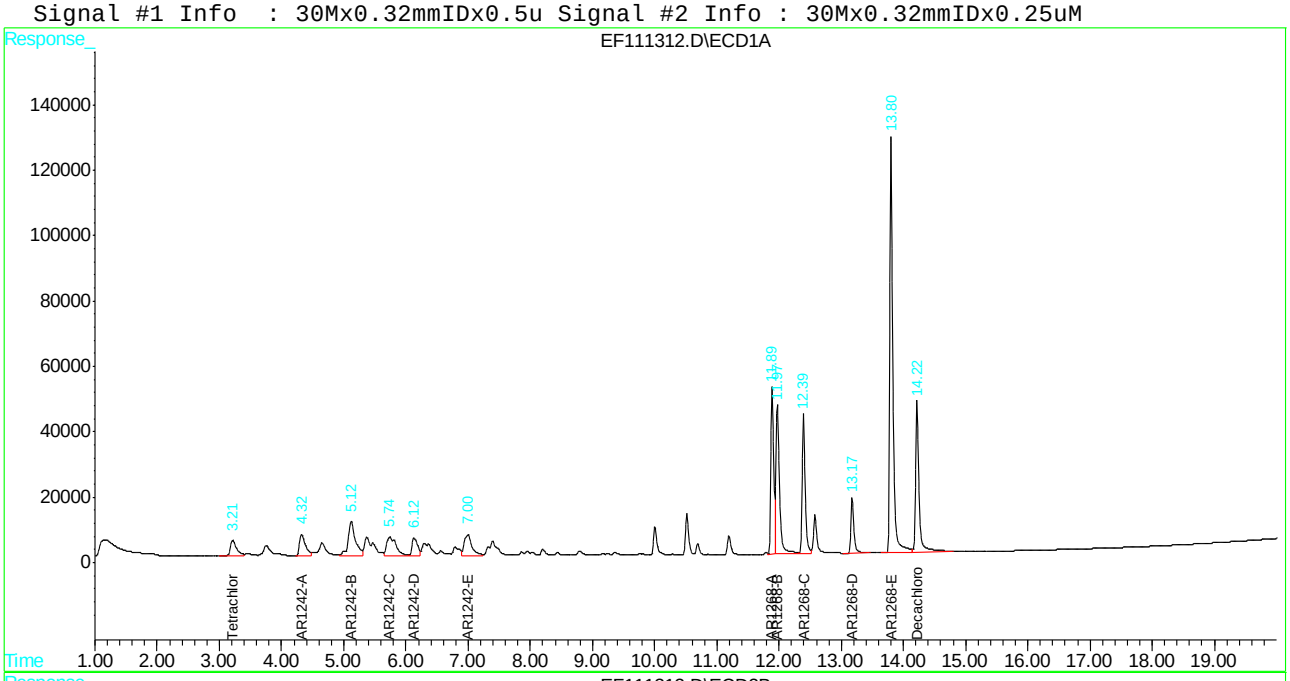
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF111312.D PCB4548.M Thu Aug 09 09:31:08 2012 GCEF

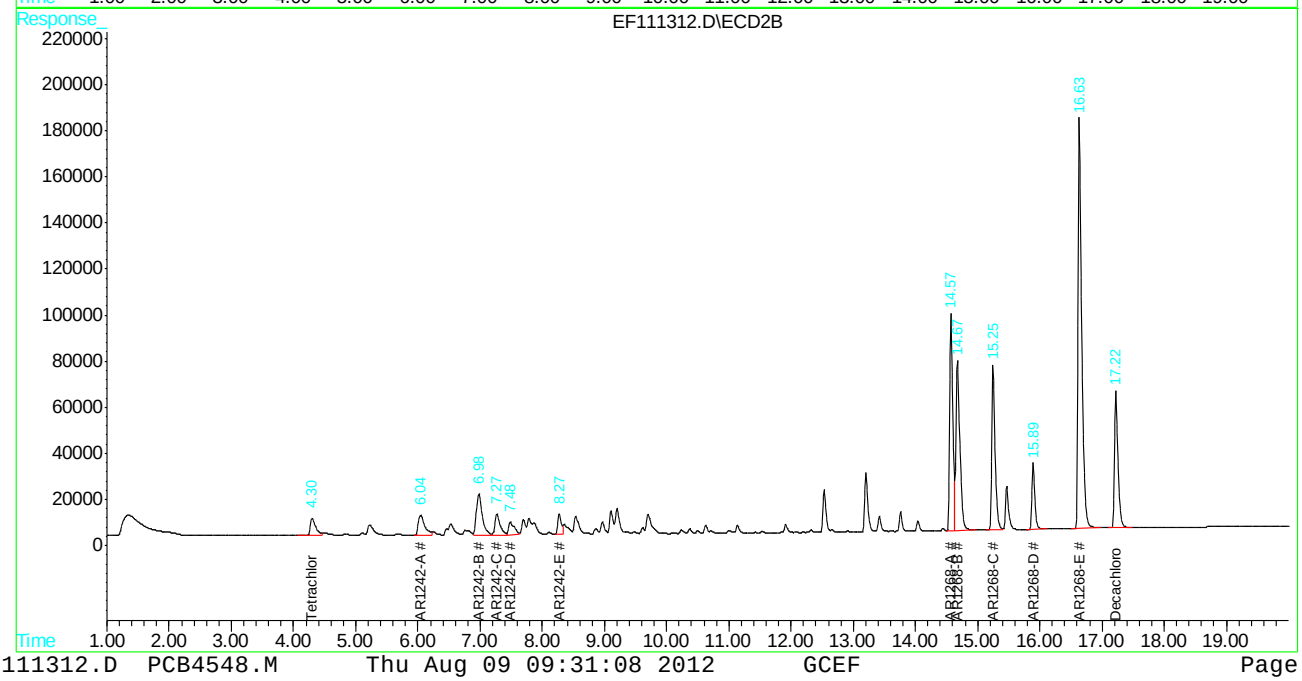
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111312.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111312.D\ECD2B.CH
Acq On : 8 Aug 2012 8:05 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:40 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:40:31 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
08/10/12 09:55

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111313.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111313.D\ECD2B.CH
Acq On : 8 Aug 2012 8:29 pm Operator: gwend
Sample : ic4548-1000 Inst : gcef
Misc : OP58752,GEF4548,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 9 8:44 2012 Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Aug 09 08:43:50 2012
Response via : Initial Calibration
DataAcq Meth : PCB4548.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.21	4.29	354991	535025	31.713	48.335	#
Spiked Amount	40.000			Recovery	=	79.28%	120.84%	
51) S	Decachlorobiphen	14.22	17.22	592405	827733	38.963	61.745	#
Spiked Amount	40.000			Recovery	=	97.41%	154.36%	
	Target Compounds							
17)	AR1248-A	4.31	6.03	211067	267737	868.087	981.814	
18)	AR1248-B	5.11	6.97	471967	662945	815.730	1060.167	#
19)	AR1248-C	5.73	7.69	900454	430437	800.407	1001.441	#
20)	AR1248-D	6.12	8.26	495195	539137	839.659	1024.894	
21)	AR1248-E	6.99	9.19	897311	894646	811.901	1187.345	#
22)	AR1248-F	7.39	9.69	796417	654547	738.492	1151.452	m#
23)	AR1248-G	8.19	10.62	238265	378761	824.072	1171.085	#

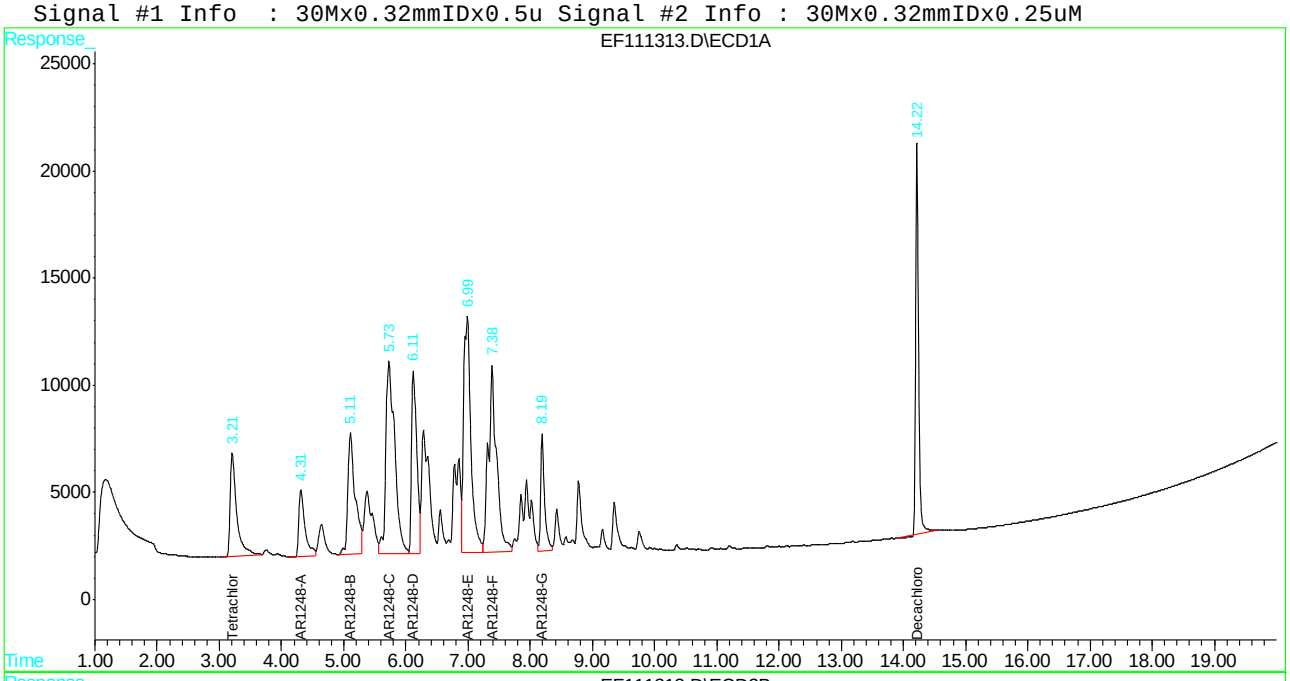
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF111313.D PCB4548.M Thu Aug 09 09:31:14 2012 GCEF

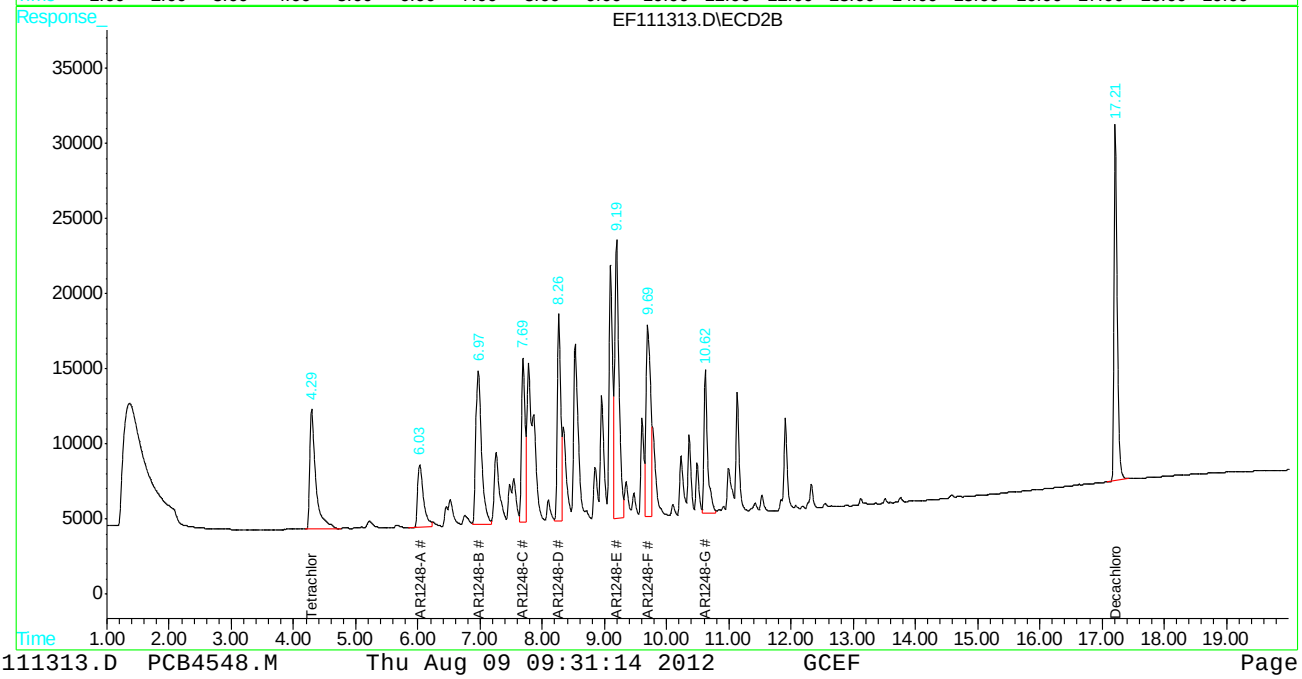
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF4548\EF111313.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4548\EF111313.D\ECD2B.CH
Acq On    :  8 Aug 2012   8:29 pm                    Operator: gwend
Sample    : ic4548-1000                              Inst    : gcef
Misc      : OP58752,GEF4548,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Aug  9  8:44 2012  Quant Results File: PCB4548.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4548.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Thu Aug 09 08:43:50 2012
Response via : Multiple Level Calibration
DataAcq Meth : PCB4548.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





New Jersey

ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:28	MA29358-STD1	1		STDA
10:34	MA29358-STD2	1		STDB
10:39	MA29358-STD3	1		STDC
10:45	MA29358-STD4	1		STDD
10:50	MA29358-CCV1	1		
10:55	MA29358-CCB1	1		
11:01	MA29358-CRI1	1		
11:07	MA29358-CRID1	1		
11:13	MA29358-CRIA1	1		
11:22	MA29358-ICV1	1		
11:32	MA29358-ICB1	1		
11:38	MA29358-ICCV1	1		
11:48	MA29358-CCB2	1		
11:53	MA29358-ICSA1	1		
11:59	MA29358-ICSAB1	1		
12:05	MA29358-CCV2	1		
12:10	MA29358-CCB3	1		
12:16	ZZZZZZ	1		
12:21	JB14805-4	2		(sample used for QC only; not part of login JB15113R)
12:27	MP66481-SD1	10		
12:33	ZZZZZZ	1		
12:38	MP66505-S1	2		
12:44	MP66505-S2	2		
12:49	JB15152-1	2		(sample used for QC only; not part of login JB15113R)
12:55	MP66505-SD1	10		
13:00	ZZZZZZ	2		
13:06	ZZZZZZ	1		
13:12	MA29358-CCV3	1		
13:17	MA29358-CCB4	1		
13:23	MP66508-MB2	1		
13:29	ZZZZZZ	2		
13:34	ZZZZZZ	20		
13:40	MP66508-LC2	1		Expired solid lab control used. Refer to blank spike (teflon chips used) for recoveries.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:45	MP66508-B2	1		
13:51	MP66508-S1	1		
13:56	MP66508-S2	1		
14:02	JB15508-1	1		(sample used for QC only; not part of login JB15113R)
14:07	MP66508-SD1	5		
14:13	ZZZZZZ	1		
14:18	MA29358-CCV4	1		
14:24	MA29358-CCB5	1		
14:29	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:52	MP66529-MB1	1		
14:57	MP66529-B1	1		
15:03	ZZZZZZ	1		
15:08	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:19	MP66548-MB1	1		
15:25	MA29358-CCV5	1		
15:30	MA29358-CCB6	1		
15:36	MP66548-B1	1		
15:42	MP66548-S1	1		
15:47	MP66548-S2	1		
15:53	JB15729-1	1		(sample used for QC only; not part of login JB15113R)
15:58	MP66548-SD1	5		
16:04	MA29358-CCV6	1		
16:09	MA29358-CCB7	1		
16:15	MA29358-CRI2	1		
16:21	ZZZZZZ	5		
16:26	MA29358-CRIA2	1		
16:32	MA29358-CRID2	1		
16:38	MA29358-ICSA2	1		
16:44	MA29358-ICSAB2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:49	ZZZZZZ	1		
16:55	ZZZZZZ	1		
17:01	ZZZZZZ	1		
17:07	MA29358-CCV7	1		
17:12	MA29358-CCB8	1		
17:18	ZZZZZZ	1		
17:23	ZZZZZZ	1		
17:29	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:40	ZZZZZZ	1		
17:46	ZZZZZZ	1		
17:52	ZZZZZZ	1		
17:57	ZZZZZZ	1		
18:03	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:14	MA29358-CCV8	1		
18:20	MA29358-CCB9	1		
18:25	ZZZZZZ	1		
18:31	ZZZZZZ	1		
18:37	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:53	MP66529-S1	1		Ca=3000ppm, In out.
18:59	MP66529-S2	1		Ca=3000ppm, In out.
19:05	JB14888-17	1		(sample used for QC only; not part of login JB15113R)
19:10	MP66529-SD1	5		Ca=3000ppm, In out.
19:16	ZZZZZZ	1		
19:22	MA29358-CCV9	1		
19:27	MA29358-CCB10	1		
19:33	ZZZZZZ	1		
19:38	ZZZZZZ	1		
19:44	ZZZZZZ	1		
19:50	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:55	ZZZZZZ	1		
20:01	ZZZZZZ	1		
20:06	ZZZZZZ	1		
20:12	ZZZZZZ	1		
20:17	ZZZZZZ	1		
20:23	ZZZZZZ	1		
20:28	MA29358-CCV10	1		
20:34	MA29358-CCB11	1		
20:40	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:51	ZZZZZZ	1		
20:56	ZZZZZZ	1		
21:02	JB15113-4R	1		
---------->	Last reportable sample/prep for job JB15113R			
21:08	ZZZZZZ	1		
21:13	MP66495-S1	1		
21:19	MP66495-S2	1		
21:25	JB14495-4	1		(sample used for QC only; not part of login JB15113R)
21:30	MP66495-SD1	5		
21:36	MA29358-CCV11	1		
21:41	MA29358-CCB12	1		
21:47	ZZZZZZ	1		
21:53	MP66518-S1	1		
21:58	MP66518-S2	1		
22:04	JB15058-1	1		(sample used for QC only; not part of login JB15113R)
22:10	MP66518-SD1	5		
22:15	ZZZZZZ	2		
22:21	ZZZZZZ	3		
22:27	ZZZZZZ	10		
22:33	ZZZZZZ	2		
22:38	ZZZZZZ	10		
22:44	MA29358-CCV12	1		Y3600 bad reading.
22:50	MA29358-CCB13	1		
22:55	MP66335-MB4	1		CCV12 bad readings.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:01	MP66335-LC3	1		CCV12 bad readings.
23:07	ZZZZZZ	1		
23:12	ZZZZZZ	1		
23:18	ZZZZZZ	1		
23:24	ZZZZZZ	1		
23:29	ZZZZZZ	1		
23:35	ZZZZZZ	1		
23:41	ZZZZZZ	1		
23:46	ZZZZZZ	1		
23:52	MA29358-CCV13	1		
23:58	MA29358-CCB14	1		
00:03	ZZZZZZ	1		
00:09	ZZZZZZ	1		
00:15	MA29358-CRIA3	1		
00:20	MA29358-CRI3	1		
00:26	MA29358-CRID3	1		
00:32	MA29358-ICSA3	1		
00:38	MA29358-ICSAB3	1		
00:43	MA29358-CCV14	1		
00:49	MA29358-CCB15	1		
---------->	Last reportable CCB for job JB15113R			
00:54	ZZZZZZ	1		
01:00	ZZZZZZ	1		
01:06	ZZZZZZ	1		
01:12	ZZZZZZ	1		
01:17	MP66501-MB2	1		
01:23	MP66501-LC1	1		
01:29	ZZZZZZ	1		
01:34	ZZZZZZ	1		
01:40	ZZZZZZ	1		
01:46	ZZZZZZ	1		
01:52	MA29358-CCV15	1		
01:57	MA29358-CCB16	1		
02:03	MP66552-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:09	MP66552-MB2	1		
02:14	MP66552-LC1	1		
02:20	MP66552-S1	1		
02:25	MP66552-S2	1		
02:31	JB15638-1	1		(sample used for QC only; not part of login JB15113R)
02:37	MP66552-SD1	5		
02:42	ZZZZZZ	1		
02:48	ZZZZZZ	1		
02:54	ZZZZZZ	1		
03:00	MA29358-CCV16	1		
03:05	MA29358-CCB17	1		
03:11	ZZZZZZ	1		
03:16	ZZZZZZ	1		
03:22	ZZZZZZ	1		
03:28	MP66549-MB1	1		
03:33	MP66549-B1	1		
03:39	MP66549-S1	1		
03:44	MP66549-S2	1		
03:50	JB15344-1B	1		(sample used for QC only; not part of login JB15113R)
03:55	MP66549-SD1	5		
04:01	ZZZZZZ	1		
04:07	MA29358-CCV17	1		
04:12	MA29358-CCB18	1		
04:18	ZZZZZZ	1		
04:23	ZZZZZZ	1		
04:29	ZZZZZZ	1		
04:35	ZZZZZZ	1		
04:40	ZZZZZZ	1		
04:46	ZZZZZZ	1		
04:51	ZZZZZZ	1		
04:57	ZZZZZZ	1		
05:03	ZZZZZZ	1		
05:08	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:14	MA29358-CCV18	1		
05:19	MA29358-CCB19	1		
05:25	MP66537-MB2	1		
05:31	MP66537-LC1	1		
05:36	ZZZZZZ	1		
05:42	ZZZZZZ	1		
05:48	ZZZZZZ	1		
05:53	ZZZZZZ	1		
05:59	ZZZZZZ	1		
06:05	ZZZZZZ	1		
06:10	MP66556-MB1	1		
06:16	MP66556-B1	1		
06:22	MA29358-CCV19	1		
06:27	MA29358-CCB20	1		
06:33	ZZZZZZ	1		
06:39	MP66556-S1	1		
06:44	MP66556-S2	1		
06:50	JB15669-1	1		(sample used for QC only; not part of login JB15113R)
06:56	MP66556-SD1	5		
07:01	ZZZZZZ	1		
07:07	ZZZZZZ	1		
07:13	ZZZZZZ	1		
07:19	ZZZZZZ	1		
07:25	ZZZZZZ	1		
07:31	MA29358-CCV20	1		
07:36	MA29358-CCB21	1		
07:42	ZZZZZZ	1		
07:48	ZZZZZZ	1		
07:53	MA29358-CRIA4	1		
07:59	MA29358-CRI4	1		
08:05	MA29358-CRID4	1		
08:10	MA29358-ICSA4	1		
08:16	MA29358-ICSAB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:22	MA29358-CCV21	1		
08:27	MA29358-CCB22	1		
08:33	ZZZZZZ	1		
08:39	ZZZZZZ	1		
08:45	ZZZZZZ	1		
08:50	ZZZZZZ	1		
08:56	ZZZZZZ	1		
09:02	ZZZZZZ	1		
09:08	ZZZZZZ	1		
09:13	ZZZZZZ	1		
09:19	ZZZZZZ	1		
09:25	MA29358-CCV22	1		
09:30	MA29358-CCB23	1		
09:36	ZZZZZZ	1		
09:42	ZZZZZZ	1		
09:48	MA29358-CCV23	1		
09:53	MA29358-CCB24	1		
09:59	MA29358-CRI5	1		
10:05	MA29358-CRID5	1		
10:10	MA29358-CRIA5	1		
10:16	MA29358-ICSA5	1		
10:22	MA29358-ICSAB5	1		
10:28	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:39	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:56	ZZZZZZ	1		
11:02	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:25	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:28	MA29358-STD1	1841 R	130310 R	8615 R	6057 R
10:34	MA29358-STD2	1808	126130	8609	5605
10:39	MA29358-STD3	1776	124110	8597	5427
10:45	MA29358-STD4	1715	119840	8497	5191
10:50	MA29358-CCV1	No results reported for the elements associated with this internal standard.			
10:55	MA29358-CCB1	No results reported for the elements associated with this internal standard.			
11:01	MA29358-CRI1	1816	128470	8683	5883
11:07	MA29358-CRID1	1831	129790	8667	5995
11:13	MA29358-CRIA1	1836	130080	8700	6020
11:22	MA29358-ICV1	1764	123390	8538	5405
11:32	MA29358-ICB1	1829	129630	8789	6032
11:38	MA29358-ICCV1	1757	123480	8553	5384
11:48	MA29358-CCB2	1829	129570	8768	5997
11:53	MA29358-ICSA1	1626	113050	7943	4787
11:59	MA29358-ICSAB1	1618	113000	7918	4781
12:05	MA29358-CCV2	1758	123000	8573	5363
12:10	MA29358-CCB3	1828	129090	8880	5980
12:16	ZZZZZZ	1834	129110	8909	6000
12:21	JB14805-4	1662	118490	8732	4987
12:27	MP66481-SD1	1764	124520	8740	5549
12:33	ZZZZZZ	1816	129130	8913	5975
12:38	MP66505-S1	1820	127140	8869	5789
12:44	MP66505-S2	1829	125550	8815	5829
12:49	JB15152-1	1826	127630	9017	5880 a
12:55	MP66505-SD1	1837	128640	8945	5881
13:00	ZZZZZZ	1819	127650	8945	5866
13:06	ZZZZZZ	1827	129650	9103	6025
13:12	MA29358-CCV3	1752	122810	8724	5334
13:17	MA29358-CCB4	1829	129340	8938	5967
13:23	MP66508-MB2	1808	129640	8834	5950
13:29	ZZZZZZ	1711	128690	8934	5662
13:34	ZZZZZZ	1820	129600	8780	5846
13:40	MP66508-LC2	No results reported for the elements associated with this internal standard.			

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:45	MP66508-B2	1817	128130	8734	5685
13:51	MP66508-S1	1832	130010	8911	5474
13:56	MP66508-S2	1840	129440	8997	5500
14:02	JB15508-1	1834	129480	9020	5569
14:07	MP66508-SD1	1841	129910	8787	5807
14:13	ZZZZZZ	1726	122620	8553	5518
14:18	MA29358-CCV4	1756	122840	8571	5345
14:24	MA29358-CCB5	1817	129780	8842	5937
14:29	ZZZZZZ	1695	121300	8558	5462
14:35	ZZZZZZ	1713	122010	8545	5614
14:41	ZZZZZZ	1687	121140	8531	5366
14:46	ZZZZZZ	1755	125640	8724	5526
14:52	MP66529-MB1	1810	129940	8967	5958
14:57	MP66529-B1	1805	126520	8712	5640
15:03	ZZZZZZ	1825	128220	8832	5642
15:08	ZZZZZZ	1812	126960	8704	5636
15:14	ZZZZZZ	1813	127980	8854	5631
15:19	MP66548-MB1	1806	130170	8878	5945
15:25	MA29358-CCV5	1746	122580	8715	5311
15:30	MA29358-CCB6	1816	129070	8881	5916
15:36	MP66548-B1	1807	127050	8858	5635
15:42	MP66548-S1	1808	126740	8911	5578
15:47	MP66548-S2	1811	126820	8872	5587
15:53	JB15729-1	1809	127980	9009	5706
15:58	MP66548-SD1	1816	128540	8931	5868
16:04	MA29358-CCV6	1754	122530	8822	5295
16:09	MA29358-CCB7	1816	129060	8913	5894
16:15	MA29358-CRI2	1798	127550	8883	5767
16:21	ZZZZZZ	1812	128610	8891	5864
16:26	MA29358-CRIA2	1823	129040	8943	5906
16:32	MA29358-CRID2	1812	128520	8916	5865
16:38	MA29358-ICSA2	1618	112550	8053	4699
16:44	MA29358-ICSAB2	1614	112350	8078	4706

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:49	ZZZZZZ	1850	121130	7700	5210
16:55	ZZZZZZ	1774	126130	8882	5852
17:01	ZZZZZZ	1636	116520	8571	4989
17:07	MA29358-CCV7	1748	122800	8680	5294
17:12	MA29358-CCB8	1826	129900	8822	5938
17:18	ZZZZZZ	1825	128980	8968	5860
17:23	ZZZZZZ	1823	129230	8937	5863
17:29	ZZZZZZ	1821	129330	8837	5859
17:35	ZZZZZZ	1817	129220	8816	5842
17:40	ZZZZZZ	1820	129670	8704	5864
17:46	ZZZZZZ	1822	130080	8699	5863
17:52	ZZZZZZ	1824	129850	8727	5880
17:57	ZZZZZZ	1831	128740	8631	5732
18:03	ZZZZZZ	1814	128560	8677	5891
18:09	ZZZZZZ	1835	129830	8601	5827
18:14	MA29358-CCV8	1780	124520	8478	5382
18:20	MA29358-CCB9	1852	131490	8628	6023
18:25	ZZZZZZ	1843	130830	8675	5950
18:31	ZZZZZZ	1842	130510	8765	5780
18:37	ZZZZZZ	1826	128130	8616	5675
18:42	ZZZZZZ	1851	130100	8617	5799
18:48	ZZZZZZ	1846	129630	8637	5746
18:53	MP66529-S1	1511	106460	7590	4206 !b
18:59	MP66529-S2	1512	104680	7626	4214 !b
19:05	JB14888-17	1504	106440	7879	4185 !b
19:10	MP66529-SD1	1691	119000	8358	4955
19:16	ZZZZZZ	1881	131970	8751	5681
19:22	MA29358-CCV9	1806	125800	8463	5441
19:27	MA29358-CCB10	1877	132990	8735	6092
19:33	ZZZZZZ	1927	133800	8764	5646
19:38	ZZZZZZ	1904	133080	8761	5810
19:44	ZZZZZZ	1905	132790	8694	5793
19:50	ZZZZZZ	1947	135190	8860	5787

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:55	ZZZZZZ	1949	135810	8814	5796
20:01	ZZZZZZ	1899	132840	8616	5902
20:06	ZZZZZZ	1904	132770	8642	5831
20:12	ZZZZZZ	1819	126510	8121	5458
20:17	ZZZZZZ	1903	132790	8571	5956
20:23	ZZZZZZ	1898	133810	8550	5911
20:28	MA29358-CCV10	1838	127200	8402	5533
20:34	MA29358-CCB11	1907	134240	8544	6196
20:40	ZZZZZZ	1489	106040	7850	4245
20:45	ZZZZZZ	1961	136920	8715	5897
20:51	ZZZZZZ	1936	134560	8690	5889
20:56	ZZZZZZ	1910	133250	8640	5864
21:02	JB15113-4R	1800	123920	8180	5075
21:08	ZZZZZZ	1912	135100	8606	6235
21:13	MP66495-S1	1644	114670	8450	4707
21:19	MP66495-S2	1636	114440	8386	4696
21:25	JB14495-4	1663	115230	8552	4765
21:30	MP66495-SD1	1812	125750	8463	5503
21:36	MA29358-CCV11	1832	129220	8362	5523
21:41	MA29358-CCB12	1911	134520	8447	6194
21:47	ZZZZZZ	1894	134390	8506	6177
21:53	MP66518-S1	1724	120390	8401	5077
21:58	MP66518-S2	1729	120560	8439	5099
22:04	JB15058-1	1737	120920	8531	5142
22:10	MP66518-SD1	1845	129220	8410	5710
22:15	ZZZZZZ	2217	155260	10242	5486
22:21	ZZZZZZ	2041	143030	9280	5634
22:27	ZZZZZZ	1916	133950	8592	5792
22:33	ZZZZZZ	1806	126360	8437	5530
22:38	ZZZZZZ	1864	131030	8466	5877
22:44	MA29358-CCV12	1841	999999 !b	8373	5553
22:50	MA29358-CCB13	1920	135270	8448	6228
22:55	MP66335-MB4	1669	113720	8577	4801

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:01	MP66335-LC3	1892	133300	8385	6007
23:07	ZZZZZZ	1625	112980	8510	4605
23:12	ZZZZZZ	1613	112780	8470	4600
23:18	ZZZZZZ	1593	111170	8344	4564
23:24	ZZZZZZ	1605	110830	8494	4590
23:29	ZZZZZZ	1606	111220	8485	4599
23:35	ZZZZZZ	1601	111910	8357	4574
23:41	ZZZZZZ	1600	112070	8571	4577
23:46	ZZZZZZ	1598	111500	8351	4568
23:52	MA29358-CCV13	1847	128130	8301	5586
23:58	MA29358-CCB14	1924	135280	8477	6266
00:03	ZZZZZZ	1910	133660	8540	6102
00:09	ZZZZZZ	1919	134890	8480	6199
00:15	MA29358-CRIA3	1927	135410	8492	6258
00:20	MA29358-CRI3	1905	134060	8442	6098
00:26	MA29358-CRID3	1922	135050	8468	6218
00:32	MA29358-ICSA3	1718	117760	7751	4991
00:38	MA29358-ICSAB3	1715	117660	7716	4992
00:43	MA29358-CCV14	1855	128710	8343	5606
00:49	MA29358-CCB15	1927	135620	8438	6268
00:54	ZZZZZZ	1612	112350	8408	4605
01:00	ZZZZZZ	1620	112410	8442	4631
01:06	ZZZZZZ	1618	112270	8393	4615
01:12	ZZZZZZ	1613	112130	8437	4592
01:17	MP66501-MB2	1678	114520	8537	4818
01:23	MP66501-LC1	1894	133800	8416	6025
01:29	ZZZZZZ	1684	115270	8540	4750
01:34	ZZZZZZ	1640	113100	8324	4797
01:40	ZZZZZZ	1654	114550	8569	4723
01:46	ZZZZZZ	1650	114400	8496	4649
01:52	MA29358-CCV15	1885	130850	8471	5692
01:57	MA29358-CCB16	1950	136860	8509	6317
02:03	MP66552-MB1	1957	137470	8690	6407

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:09	MP66552-MB2	1949	136550	8760	6371
02:14	MP66552-LC1	1888	132890	8461	5980
02:20	MP66552-S1	1547	107250	8450	4329
02:25	MP66552-S2	1542	106840	8481	4328
02:31	JB15638-1	1553	107760	8507	4371
02:37	MP66552-SD1	1762	121410	8461	5230
02:42	ZZZZZZ	1756	119640	8449	5056
02:48	ZZZZZZ	1554	105480	8683	4227 !b
02:54	ZZZZZZ	1553	107850	8461	4387
03:00	MA29358-CCV16	1861	129160	8406	5610
03:05	MA29358-CCB17	1944	136590	8538	6305
03:11	ZZZZZZ	1563	108250	8545	4404
03:16	ZZZZZZ	1825	129220	8791	5617
03:22	ZZZZZZ	1824	128310	8780	5603
03:28	MP66549-MB1	1914	136550	8554	6262
03:33	MP66549-B1	1917	133550	8374	5928
03:39	MP66549-S1	2008	135900	8315	5784
03:44	MP66549-S2	2013	135930	8359	5804
03:50	JB15344-1B	2038	137900	8534	5823
03:55	MP66549-SD1	1987	137360	8604	6062
04:01	ZZZZZZ	1987	138160	8844	5870
04:07	MA29358-CCV17	1885	130380	8417	5666
04:12	MA29358-CCB18	1956	137670	8586	6338
04:18	ZZZZZZ	1957	135160	8556	5802
04:23	ZZZZZZ	1857	131710	8305	5800
04:29	ZZZZZZ	1867	131060	8341	5746
04:35	ZZZZZZ	1855	131110	8360	5868
04:40	ZZZZZZ	1933	134720	8633	5744
04:46	ZZZZZZ	1952	136170	8598	5845
04:51	ZZZZZZ	1860	131850	8367	5767
04:57	ZZZZZZ	1953	136040	8654	5871
05:03	ZZZZZZ	1972	136820	8717	5843
05:08	ZZZZZZ	2040	139580	8678	5998

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:14	MA29358-CCV18	1894	131790	8482	5721
05:19	MA29358-CCB19	1973	138540	8638	6402
05:25	MP66537-MB2	1706	115970	8640	4927
05:31	MP66537-LC1	1933	136260	8490	6150
05:36	ZZZZZZ	1618	112520	8511	4626
05:42	ZZZZZZ	2065	141920	8915	6101
05:48	ZZZZZZ	2013	140260	8947	5898
05:53	ZZZZZZ	1895	139580	8906	6221
05:59	ZZZZZZ	1947	138840	8867	6007
06:05	ZZZZZZ	1978		8931	5984
06:10	MP66556-MB1	1750	118820	8871	5055
06:16	MP66556-B1	1820	123870	9098	5227
06:22	MA29358-CCV19	1969	136530	8765	5937
06:27	MA29358-CCB20	2035	144080	8885	6616
06:33	ZZZZZZ	1689	119500	8943	4828
06:39	MP66556-S1	1780	121850	8940	5080
06:44	MP66556-S2	1776	121400	8920	5070
06:50	JB15669-1	1777	122260	9009	5109
06:56	MP66556-SD1	1858	128410	8644	5596
07:01	ZZZZZZ	1604	112340	8404	4611
07:07	ZZZZZZ	1592	111610	8412	4583
07:13	ZZZZZZ	1590	111500	8419	4568
07:19	ZZZZZZ	1582	110360	8415	4551
07:25	ZZZZZZ	1677	115320	8535	4814
07:31	MA29358-CCV20	1894	131990	8457	5721
07:36	MA29358-CCB21	1965	138110	8542	6390
07:42	ZZZZZZ	1936	136480	8483	6212
07:48	ZZZZZZ	1951	137700	8582	6337
07:53	MA29358-CRIA4	1970	138800	8600	6393
07:59	MA29358-CRI4	1935	136070	8592	6224
08:05	MA29358-CRID4	1954	137690	8528	6332
08:10	MA29358-ICSA4	1745	119690	7674	5080
08:16	MA29358-ICSAB4	1741	119600	7726	5092

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:22	MA29358-CCV21	1892	130210	8352	5700
08:27	MA29358-CCB22	1960	137660	8526	6386
08:33	ZZZZZZ	1674	114700	8498	4791
08:39	ZZZZZZ	1623	112640	8393	4756
08:45	ZZZZZZ	1634	113210	8416	4804
08:50	ZZZZZZ	1617	113230	8385	4649
08:56	ZZZZZZ	1671	114900	8497	4783
09:02	ZZZZZZ	1633	113470	8401	4687
09:08	ZZZZZZ	1691	116020	8529	4888
09:13	ZZZZZZ	1657	114320	8478	4756
09:19	ZZZZZZ	1632	112960	8507	4692
09:25	MA29358-CCV22	1876	130410	8477	5710
09:30	MA29358-CCB23	1948	137090	8641	6369
09:36	ZZZZZZ	1595	111690	8514	4635
09:42	ZZZZZZ	1674	114800	8574	4842
09:48	MA29358-CCV23	1873	130590	8506	5695
09:53	MA29358-CCB24	1941	137630	8656	6359
09:59	MA29358-CRI5	1923	135520	8592	6212
10:05	MA29358-CRID5	1938	137520	8654	6339
10:10	MA29358-CRIA5	1945	137090	8645	6368
10:16	MA29358-ICSA5	1730	118990	7772	5068
10:22	MA29358-ICSAB5	1728	119060	7838	5080
10:28	ZZZZZZ	1767	124410	8504	5443
10:33	ZZZZZZ	1945	136980	8641	6362
10:39	ZZZZZZ	1932	135770	8620	6309
10:45	ZZZZZZ	1927	136370	8643	6324
10:50	ZZZZZZ	1930	136510	8678	6332
10:56	ZZZZZZ	1939	137490	8626	6394
11:02	ZZZZZZ	1936	136630	8674	6371
11:07	ZZZZZZ	1934	137240	8671	6351
11:13	ZZZZZZ	1952	137540	8674	6455
11:19	ZZZZZZ	1822	135610	8675	6278
11:25	ZZZZZZ	8611 !	472250 !	22017 !	25771 !

R = Reference for ISTD limits. ! = Outside limits.

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29358
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) Elevated detection limit due to dilution required for high interfering element.
(b) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:			11:32		11:48		12:10		13:17	
Sample ID:			ICB1		CCB2		CCB3		CCB4	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	10.3	<200	9.5	<200	47.5	<200	6.3	<200
Antimony	6.0	1.2	0.50	<6.0	1.2	<6.0	2.1	<6.0	1.6	<6.0
Arsenic	3.0	.8	1.7	<3.0	1.3	<3.0	2.2	<3.0	0.70	<3.0
Barium	200	.4	0.30	<200	0.30	<200	1.2	<200	0.10	<200
Beryllium	1.0	.09	0.20	<1.0	0.20	<1.0	0.90	<1.0	0.10	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.70	<3.0	0.50	<3.0	1.2	<3.0	0.40	<3.0
Calcium	5000	23	2.5	<5000	2.8	<5000	49.0	<5000	-1.2	<5000
Chromium	10	.4	0.60	<10	0.50	<10	1.1	<10	0.0	<10
Cobalt	50	.4	0.70	<50	0.30	<50	1.2	<50	0.30	<50
Copper	10	.6	0.60	<10	1.0	<10	1.8	<10	-0.10	<10
Iron	100	4.2	4.0	<100	2.5	<100	30.0	<100	-2.3	<100
Lead	3.0	1	0.60	<3.0	0.0	<3.0	1.4	<3.0	0.0	<3.0
Lithium	20	1.4								
Magnesium	5000	28	4.5	<5000	-0.60	<5000	34.1	<5000	2.9	<5000
Manganese	15	.2	0.30	<15	0.40	<15	1.3	<15	0.0	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.50	<10	0.50	<10	1.1	<10	0.20	<10
Palladium	50	1.3								
Potassium	10000	51	92.7	<10000	88.9	<10000	91.0	<10000	74.9	<10000
Selenium	10	1.6	1.6	<10	2.0	<10	1.2	<10	2.2	<10
Silicon	200	10								
Silver	10	.6	0.10	<10	0.0	<10	0.10	<10	0.0	<10
Sodium	10000	15	14.8	<10000	18.3	<10000	24.3	<10000	7.5	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	0.60	<2.0	1.2	<2.0	2.6	* (a)	1.4	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.20	<50	0.50	<50	1.2	<50	0.20	<50
Zinc	20	1.9	0.40	<20	0.30	<20	1.0	<20	0.30	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.3

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for TLNJ in the area bracketed by this QC.

12.1.2
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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:			14:24		15:30		16:09		17:12	
Sample ID:			CCB5		CCB6		CCB7		CCB8	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	14.5	<200	14.4	<200	10.7	<200	7.2	<200
Antimony	6.0	1.2	1.1	<6.0	1.4	<6.0	0.50	<6.0	1.6	<6.0
Arsenic	3.0	.8	0.90	<3.0	0.90	<3.0	1.3	<3.0	1.5	<3.0
Barium	200	.4	0.30	<200	0.60	<200	0.60	<200	0.10	<200
Beryllium	1.0	.09	0.20	<1.0	0.30	<1.0	0.40	<1.0	0.10	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.50	<3.0	0.60	<3.0	0.40	<3.0	1.0	<3.0
Calcium	5000	23	1.0	<5000	3.1	<5000	1.2	<5000	-3.1	<5000
Chromium	10	.4	0.40	<10	0.60	<10	0.60	<10	0.40	<10
Cobalt	50	.4	0.40	<50	0.60	<50	0.40	<50	1.1	<50
Copper	10	.6	0.40	<10	0.30	<10	0.20	<10	0.10	<10
Iron	100	4.2	5.2	<100	5.9	<100	7.0	<100	0.50	<100
Lead	3.0	1	0.80	<3.0	0.20	<3.0	0.60	<3.0	1.6	<3.0
Lithium	20	1.4								
Magnesium	5000	28	-8.3	<5000	-2.6	<5000	9.8	<5000	-14	<5000
Manganese	15	.2	0.10	<15	0.30	<15	0.30	<15	0.10	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.40	<10	0.20	<10	0.20	<10	0.90	<10
Palladium	50	1.3								
Potassium	10000	51	72.1	<10000	114	<10000	83.8	<10000	41.9	<10000
Selenium	10	1.6	2.7	<10	2.2	<10	1.9	<10	2.2	<10
Silicon	200	10								
Silver	10	.6	-0.10	<10	-0.10	<10	0.0	<10	-0.20	<10
Sodium	10000	15	15.0	<10000	13.6	<10000	12.5	<10000	12.7	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	1.6	<2.0	1.0	<2.0	0.80	<2.0	2.4	* (a)
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.50	<50	0.50	<50	0.50	<50	0.20	<50
Zinc	20	1.9	0.60	<20	0.40	<20	0.50	<20	0.80	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.3

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for TLNJ in the area bracketed by this QC.

12.1.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:			18:20		19:27		20:34		21:41	
Sample ID:			CCB9		CCB10		CCB11		CCB12	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	10	13.1	<200	11.4	<200	20.2	<200	24.0	<200
Antimony	6.0	1.2	1.2	<6.0	1.1	<6.0	1.6	<6.0	1.3	<6.0
Arsenic	3.0	.8	0.80	<3.0	0.90	<3.0	1.0	<3.0	0.70	<3.0
Barium	200	.4	0.70	<200	0.50	<200	0.60	<200	0.80	<200
Beryllium	1.0	.09	0.20	<1.0	0.30	<1.0	0.40	<1.0	0.50	<1.0
Bismuth	20	1.6								
Boron	100	1.2								
Cadmium	3.0	.2	0.70	<3.0	0.60	<3.0	0.70	<3.0	0.60	<3.0
Calcium	5000	23	0.20	<5000	4.8	<5000	10.1	<5000	12.1	<5000
Chromium	10	.4	0.70	<10	1.0	<10	0.80	<10	0.60	<10
Cobalt	50	.4	0.80	<50	0.60	<50	0.80	<50	0.70	<50
Copper	10	.6	0.50	<10	0.40	<10	0.50	<10	0.10	<10
Iron	100	4.2	3.1	<100	3.9	<100	7.2	<100	11.7	<100
Lead	3.0	1	0.0	<3.0	0.60	<3.0	1.0	<3.0	0.0	<3.0
Lithium	20	1.4								
Magnesium	5000	28	-8.0	<5000	7.6	<5000	-14	<5000	8.3	<5000
Manganese	15	.2	0.50	<15	0.70	<15	0.60	<15	0.40	<15
Molybdenum	20	.3	anr							
Nickel	10	.4	0.60	<10	0.40	<10	0.70	<10	0.40	<10
Palladium	50	1.3								
Potassium	10000	51	62.4	<10000	56.6	<10000	70.6	<10000	206	<10000
Selenium	10	1.6	3.5	<10	1.8	<10	2.0	<10	2.6	<10
Silicon	200	10								
Silver	10	.6	0.20	<10	0.0	<10	-0.20	<10	0.0	<10
Sodium	10000	15	7.4	<10000	7.7	<10000	10.5	<10000	67.5	<10000
Sulfur	50	2.8								
Strontium	10	.2								
Thallium	2.0	1.4	1.5	<2.0	1.7	<2.0	1.9	<2.0	1.8	<2.0
Tin	10	.7								
Titanium	10	.6								
Tungsten	50	4.1								
Vanadium	50	.3	0.50	<50	0.70	<50	0.70	<50	0.50	<50
Zinc	20	1.9	0.60	<20	0.50	<20	0.60	<20	0.40	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.3

(*) Outside of QC limits
(anr) Analyte not requested

12.1.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:			22:50		23:58		00:49	
Sample ID:			CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	10	22.4	<200	6.2	<200	21.1	<200
Antimony	6.0	1.2	1.0	<6.0	1.7	<6.0	1.1	<6.0
Arsenic	3.0	.8	0.80	<3.0	-0.40	<3.0	0.30	<3.0
Barium	200	.4	0.80	<200	0.0	<200	0.20	<200
Beryllium	1.0	.09	0.60	<1.0	0.10	<1.0	0.20	<1.0
Bismuth	20	1.6						
Boron	100	1.2						
Cadmium	3.0	.2	0.60	<3.0	0.10	<3.0	0.10	<3.0
Calcium	5000	23	15.3	<5000	0.0	<5000	4.2	<5000
Chromium	10	.4	0.60	<10	0.20	<10	0.30	<10
Cobalt	50	.4	0.70	<50	0.10	<50	0.20	<50
Copper	10	.6	0.30	<10	-0.30	<10	-0.20	<10
Iron	100	4.2	13.9	<100	-0.60	<100	2.1	<100
Lead	3.0	1	0.50	<3.0	-0.60	<3.0	0.70	<3.0
Lithium	20	1.4						
Magnesium	5000	28	3.8	<5000	-1.7	<5000	-3.5	<5000
Manganese	15	.2	0.60	<15	-0.10	<15	0.10	<15
Molybdenum	20	.3	anr					
Nickel	10	.4	0.50	<10	0.20	<10	0.10	<10
Palladium	50	1.3						
Potassium	10000	51	132	<10000	331	<10000	173	<10000
Selenium	10	1.6	1.8	<10	1.6	<10	1.0	<10
Silicon	200	10						
Silver	10	.6	0.0	<10	-0.10	<10	0.10	<10
Sodium	10000	15	56.7	<10000	253	<10000	102	<10000
Sulfur	50	2.8						
Strontium	10	.2						
Thallium	2.0	1.4	1.9	<2.0	0.70	<2.0	0.80	<2.0
Tin	10	.7						
Titanium	10	.6						
Tungsten	50	4.1						
Vanadium	50	.3	0.70	<50	-0.10	<50	0.30	<50
Zinc	20	1.9	0.50	<20	-0.10	<20	0.0	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.3

(*) Outside of QC limits
(anr) Analyte not requested

12.1.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		11:38	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	40100	100.3
Antimony	2000	2010	100.5
Arsenic	2000	2000	100.0
Barium	2000	1990	99.5
Beryllium	2000	2010	100.5
Bismuth			
Boron			
Cadmium	2000	2000	100.0
Calcium	40000	40000	100.0
Chromium	2000	1990	99.5
Cobalt	2000	2020	101.0
Copper	2000	1980	99.0
Iron	40000	40500	101.3
Lead	2000	2010	100.5
Lithium			
Magnesium	40000	39500	98.8
Manganese	2000	2010	100.5
Molybdenum	anr		
Nickel	2000	2010	100.5
Palladium			
Potassium	40000	40000	100.0
Selenium	2000	2000	100.0
Silicon			
Silver	250	246	98.4
Sodium	40000	39700	99.3
Sulfur			
Strontium			
Thallium	2000	2030	101.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	1970	98.5
Zinc	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		11:22			12:05			13:12	
Sample ID:	ICV	ICV1		CCV	CCV2		CCV	CCV3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	40000	100.0	40000	39200	98.0
Antimony	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Barium	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Beryllium	2000	2020	101.0	2000	2000	100.0	2000	1970	98.5
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Calcium	40000	40200	100.5	40000	40100	100.3	40000	39000	97.5
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Cobalt	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Copper	2000	1970	98.5	2000	1990	99.5	2000	1990	99.5
Iron	40000	40400	101.0	40000	40200	100.5	40000	38900	97.3
Lead	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Lithium									
Magnesium	40000	39700	99.3	40000	39800	99.5	40000	39200	98.0
Manganese	2000	2030	101.5	2000	2030	101.5	2000	2010	100.5
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Palladium									
Potassium	40000	39900	99.8	40000	39700	99.3	40000	39100	97.8
Selenium	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Silicon									
Silver	250	247	98.8	250	247	98.8	250	245	98.0
Sodium	40000	39900	99.8	40000	39700	99.3	40000	39700	99.3
Sulfur									
Strontium									
Thallium	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1980	99.0	2000	1980	99.0	2000	1980	99.0
Zinc	2000	2020	101.0	2000	2020	101.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		14:18			15:25			16:04	
Sample ID:	CCV	CCV4		CCV	CCV5		CCV	CCV6	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	39500	98.8	40000	38700	96.8
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Barium	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Beryllium	2000	2000	100.0	2000	1970	98.5	2000	1950	97.5
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Calcium	40000	39800	99.5	40000	39200	98.0	40000	38600	96.5
Chromium	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0
Cobalt	2000	2020	101.0	2000	2010	100.5	2000	2000	100.0
Copper	2000	1990	99.5	2000	2000	100.0	2000	2010	100.5
Iron	40000	40100	100.3	40000	39200	98.0	40000	38200	95.5
Lead	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Lithium									
Magnesium	40000	39700	99.3	40000	39200	98.0	40000	39100	97.8
Manganese	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5
Molybdenum	anr								
Nickel	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	39900	99.8	40000	39300	98.3	40000	38600	96.5
Selenium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Silicon									
Silver	250	248	99.2	250	247	98.8	250	245	98.0
Sodium	40000	39900	99.8	40000	39700	99.3	40000	39500	98.8
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1970	98.5	2000	1960	98.0	2000	1970	98.5
Zinc	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

12.1.4

12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		17:07			18:14			19:22	
Sample ID:	CCV	CCV7		CCV	CCV8		CCV	CCV9	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	39900	99.8	40000	39800	99.5
Antimony	2000	2020	101.0	2000	1990	99.5	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1970	98.5	2000	1960	98.0
Barium	2000	1980	99.0	2000	1960	98.0	2000	1940	97.0
Beryllium	2000	1960	98.0	2000	1980	99.0	2000	1970	98.5
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Calcium	40000	39100	97.8	40000	39800	99.5	40000	40000	100.0
Chromium	2000	2040	102.0	2000	2030	101.5	2000	2030	101.5
Cobalt	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Copper	2000	1990	99.5	2000	1960	98.0	2000	1940	97.0
Iron	40000	39000	97.5	40000	39700	99.3	40000	39800	99.5
Lead	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Lithium									
Magnesium	40000	39100	97.8	40000	39500	98.8	40000	39600	99.0
Manganese	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Molybdenum	anr								
Nickel	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	39300	98.3	40000	39800	99.5	40000	39700	99.3
Selenium	2000	1990	99.5	2000	1970	98.5	2000	1960	98.0
Silicon									
Silver	250	246	98.4	250	245	98.0	250	245	98.0
Sodium	40000	39600	99.0	40000	39600	99.0	40000	39200	98.0
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2030	101.5	2000	2030	101.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1950	97.5	2000	1930	96.5	2000	1920	96.0
Zinc	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		20:28			21:36			22:44	
Sample ID:	CCV	CCV10		CCV	CCV11		CCV	CCV12	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	39800	99.5	40000	39800	99.5
Antimony	2000	1950	97.5	2000	1970	98.5	2000	1950	97.5
Arsenic	2000	1940	97.0	2000	1950	97.5	2000	1980	99.0
Barium	2000	1910	95.5	2000	1900	95.0	2000	1910	95.5
Beryllium	2000	1980	99.0	2000	1980	99.0	2000	1980	99.0
Bismuth									
Boron									
Cadmium	2000	1960	98.0	2000	1970	98.5	2000	1970	98.5
Calcium	40000	40300	100.8	40000	40300	100.8	40000	40500	101.3
Chromium	2000	2030	101.5	2000	1990	99.5	2000	2430	121.5*(a
Cobalt	2000	1980	99.0	2000	1990	99.5	2000	1990	99.5
Copper	2000	1930	96.5	2000	1900	95.0	2000	1000000000500000000.0*a	
Iron	40000	39900	99.8	40000	40100	100.3	40000	40100	100.3
Lead	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Lithium									
Magnesium	40000	40000	100.0	40000	39800	99.5	40000	40100	100.3
Manganese	2000	2010	100.5	2000	1980	99.0	2000	1000000000500000000.0*a	
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Palladium									
Potassium	40000	39400	98.5	40000	39500	98.8	40000	39500	98.8
Selenium	2000	1940	97.0	2000	1950	97.5	2000	1930	96.5
Silicon									
Silver	250	243	97.2	250	239	95.6	250	288	115.2*(a
Sodium	40000	39000	97.5	40000	38600	96.5	40000	38700	96.8
Sulfur									
Strontium									
Thallium	2000	2020	101.0	2000	2020	101.0	2000	2000	100.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1920	96.0	2000	1880	94.0	2000	1000000000500000000.0*a	
Zinc	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:		23:52			00:43	
Sample ID:	CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	39800	99.5
Antimony	2000	1940	97.0	2000	1940	97.0
Arsenic	2000	1940	97.0	2000	1940	97.0
Barium	2000	1910	95.5	2000	1900	95.0
Beryllium	2000	1990	99.5	2000	1990	99.5
Bismuth						
Boron						
Cadmium	2000	1960	98.0	2000	1960	98.0
Calcium	40000	40500	101.3	40000	40500	101.3
Chromium	2000	2010	100.5	2000	2010	100.5
Cobalt	2000	1980	99.0	2000	1980	99.0
Copper	2000	1920	96.0	2000	1910	95.5
Iron	40000	40500	101.3	40000	40400	101.0
Lead	2000	2000	100.0	2000	2000	100.0
Lithium						
Magnesium	40000	39900	99.8	40000	39800	99.5
Manganese	2000	2010	100.5	2000	2010	100.5
Molybdenum	anr					
Nickel	2000	2010	100.5	2000	2010	100.5
Palladium						
Potassium	40000	39700	99.3	40000	39500	98.8
Selenium	2000	1940	97.0	2000	1930	96.5
Silicon						
Silver	250	244	97.6	250	243	97.2
Sodium	40000	37600	94.0	40000	38300	95.8
Sulfur						
Strontium						
Thallium	2000	2000	100.0	2000	2000	100.0
Tin						
Titanium						
Tungsten						
Vanadium	2000	1900	95.0	2000	1910	95.5
Zinc	2000	2010	100.5	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29358 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:				11:01		11:07		11:13	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	211	105.5	105	105.0	517	103.4
Antimony	6.0	20	3.0	6.2	103.3	2.4	80.0	21.6	108.0
Arsenic	8.0	20	3.0	9.2	115.0	3.2	106.7	21.5	107.5
Barium	200		4.0	195	97.5	4.1	102.5		
Beryllium	2.0		1.0	2.1	105.0	1.1	110.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	2.9	96.7	1.2	120.0		
Calcium	5000		1000	4950	99.0	1030	103.0		
Chromium	10		2.0	11.2	112.0	2.5	125.0		
Cobalt	50		3.0	56.1	112.2	3.2	106.7		
Copper	10		2.0	11.6	116.0	2.3	115.0		
Iron	100	500		105	105.0			520	104.0
Lead	3.0	20	2.5	3.5	116.7	2.1	84.0	20.4	102.0
Lithium	20								
Magnesium	5000		100	4890	97.8	84.7	84.7		
Manganese	15		3.0	16.0	106.7	3.2	106.7		
Molybdenum	20		4.0	anr					
Nickel	10		4.0	10.6	106.0	4.1	102.5		
Palladium	50								
Potassium	5000		2000	4820	96.4	2070	103.5		
Selenium	10	20	5.0	10.5	105.0	7.5	150.0*(a	21.3	106.5
Silicon	200								
Silver	5.0		1.0	5.0	100.0	0.90	90.0		
Sodium	5000		1000	4810	96.2	1000	100.0		
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	11.4	114.0	2.5	125.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	51.1	102.2	2.1	105.0		
Zinc	20		10	22.2	111.0	11.4	114.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.1.5
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LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:				16:15		16:26		16:32	
Sample ID:	CRI	CRIA	CRID	CRI2		CRIA2		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	205	102.5	493	98.6	101	101.0
Antimony	6.0	20	3.0	6.7	111.7	21.6	108.0	3.9	130.0
Arsenic	8.0	20	3.0	9.2	115.0	20.3	101.5	3.3	110.0
Barium	200		4.0	193	96.5			4.1	102.5
Beryllium	2.0		1.0	2.1	105.0			1.1	110.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	2.9	96.7			1.0	100.0
Calcium	5000		1000	4770	95.4			986	98.6
Chromium	10		2.0	11.6	116.0			2.3	115.0
Cobalt	50		3.0	55.2	110.4			3.1	103.3
Copper	10		2.0	10.9	109.0			1.4	70.0
Iron	100	500		100	100.0	496	99.2		
Lead	3.0	20	2.5	3.8	126.7	20.1	100.5	2.3	92.0
Lithium	20								
Magnesium	5000		100	4820	96.4			92.9	92.9
Manganese	15		3.0	15.9	106.0			3.2	106.7
Molybdenum	20		4.0	anr					
Nickel	10		4.0	10.8	108.0			4.2	105.0
Palladium	50								
Potassium	5000		2000	4710	94.2			1980	99.0
Selenium	10	20	5.0	12.4	124.0	20.3	101.5	5.6	112.0
Silicon	200								
Silver	5.0		1.0	4.8	96.0			0.90	90.0
Sodium	5000		1000	4770	95.4			998	99.8
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	11.3	113.0			2.4	120.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	50.5	101.0			2.2	110.0
Zinc	20		10	21.5	107.5			11.1	111.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested

12.1.5

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LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:				00:15		00:20		00:26	
Sample ID:	CRI	CRIA	CRID	CRIA3		CRI3		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	498	99.6	215	107.5	104	104.0
Antimony	6.0	20	3.0	21.4	107.0	5.8	96.7	3.4	113.3
Arsenic	8.0	20	3.0	19.7	98.5	8.6	107.5	3.0	100.0
Barium	200		4.0			187	93.5	4.3	107.5
Beryllium	2.0		1.0			2.2	110.0	1.1	110.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0			2.9	96.7	0.90	90.0
Calcium	5000		1000			5030	100.6	1040	104.0
Chromium	10		2.0			11.5	115.0	2.4	120.0
Cobalt	50		3.0			55.0	110.0	3.1	103.3
Copper	10		2.0			10.3	103.0	1.3	65.0*(a)
Iron	100	500		511	102.2	109	109.0		
Lead	3.0	20	2.5	19.9	99.5	3.6	120.0	2.5	100.0
Lithium	20								
Magnesium	5000		100			4910	98.2	107	107.0
Manganese	15		3.0			15.9	106.0	3.2	106.7
Molybdenum	20		4.0						
Nickel	10		4.0			10.4	104.0	4.3	107.5
Palladium	50								
Potassium	5000		2000			4950	99.0	2190	109.5
Selenium	10	20	5.0	19.3	96.5	11.4	114.0	6.1	122.0
Silicon	200								
Silver	5.0		1.0			4.6	92.0	0.90	90.0
Sodium	5000		1000			4770	95.4	1090	109.0
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0			11.3	113.0	2.3	115.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0			48.7	97.4	1.9	95.0
Zinc	20		10			21.9	109.5	11.4	114.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29358 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.1.5
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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29358 Units: ug/l

Time:			11:53		11:59		16:38		16:44	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	519000	103.8	519000	103.8	513000	102.6	502000	100.4
Antimony		1000	-0.30		1060	106.0	1.0		1070	107.0
Arsenic		1000	2.3		999	99.9	2.2		984	98.4
Barium		500	-0.30		528	105.6	0.0		528	105.6
Beryllium		500	0.10		502	100.4	0.10		488	97.6
Bismuth		500	-1.2		503	100.6	-0.20		491	98.2
Boron			-8.6		-7.6		-11		-9.0	
Cadmium		1000	3.2		1020	102.0	3.1		1020	102.0
Calcium	400000	400000	389000	97.3	406000	101.5	377000	94.3	394000	98.5
Chromium		500	0.50		460	92.0	1.1		465	93.0
Cobalt		500	2.5		454	90.8	2.6		448	89.6
Copper		500	6.3		510	102.0	5.6		514	102.8
Iron	200000	200000	209000	104.5	211000	105.5	200000	100.0	202000	101.0
Lead		1000	0.40		909	90.9	0.40		912	91.2
Lithium		500	20.2		567	113.4	17.2		561	112.2
Magnesium	500000	500000	540000	108.0	547000	109.4	531000	106.2	540000	108.0
Manganese		500	0.60		474	94.8	-1.4		469	93.8
Molybdenum		500	4.7		483	96.6	3.5		479	95.8
Nickel		1000	0.60		918	91.8	0.70		925	92.5
Palladium		500	-21		515	103.0	-21		523	104.6
Potassium			169		142		141		152	
Selenium		1000	13.5		977	97.7	7.7		966	96.6
Silicon			-22		-23		-22		-19	
Silver		1000	4.0		1040	104.0	0.0		1030	103.0
Sodium			23.7		27.0		18.8		11.3	
Sulfur		500	37.7		511	102.2	42.5		517	103.4
Strontium			3.1		3.4		3.1		3.2	
Thallium		1000	1.8		918	91.8	-0.20		921	92.1
Tin			-2.6		-3.5		-3.7		-3.8	
Titanium			2.6		2.9		2.1		2.7	
Tungsten		500	50.1		553	110.6	21.7		526	105.2
Vanadium		500	-3.9		450	90.0	-1.1		448	89.6
Zinc		1000	0.60		903	90.3	0.60		888	88.8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29358 Units: ug/l

Time:							
Sample ID:							
Metal							
Zirconium	500	-4.4	422	84.4	-5.6	419	83.8

(*) Outside of QC limits
(anr) Analyte not requested

12.1.6
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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29358 Units: ug/l

Time:			00:32		00:38	
Sample ID:	ICSA	ICSAB	ICSA3		ICSAB3	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	518000	103.6	511000	102.2
Antimony		1000	0.40		1030	103.0
Arsenic		1000	1.6		965	96.5
Barium		500	-0.60		505	101.0
Beryllium		500	0.10		498	99.6
Bismuth		500	-2.1		479	95.8
Boron			-9.7		-10	
Cadmium		1000	3.0		1000	100.0
Calcium	400000	400000	391000	97.8	412000	103.0
Chromium		500	1.1		464	92.8
Cobalt		500	1.9		445	89.0
Copper		500	5.8		493	98.6
Iron	200000	200000	209000	104.5	211000	105.5
Lead		1000	-0.40		904	90.4
Lithium		500	19.0		543	108.6
Magnesium	500000	500000	541000	108.2	553000	110.6
Manganese		500	-0.20		473	94.6
Molybdenum		500	3.7		471	94.2
Nickel		1000	0.10		916	91.6
Palladium		500	-19		492	98.4
Potassium			337		304	
Selenium		1000	15.5		946	94.6
Silicon			-22		-21	
Silver		1000	2.3		1020	102.0
Sodium			184		180	
Sulfur		500	43.7		505	101.0
Strontium			2.6		2.5	
Thallium		1000	3.1		907	90.7
Tin			-3.5		-3.9	
Titanium			2.2		2.9	
Tungsten		500	16.5		518	103.6
Vanadium		500	-3.4		437	87.4
Zinc		1000	0.40		901	90.1

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SB090812M1.ICP Date Analyzed: 09/08/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29358 Units: ug/l

Time:				
Sample ID:				
Metal				
Zirconium	500	-5.2	405	81.0

(*) Outside of QC limits
(anr) Analyte not requested

12.1.6
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
Analyst: VK Run ID: MA29361
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:49	MA29361-STD1	1		B=2.24312e-5,C=-3.43968e-2,R=0.999991
11:50	MA29361-STD2	1		STD02REP1
11:51	MA29361-STD3	1		STD03REP1
11:52	MA29361-STD4	1		STD04REP1
11:53	MA29361-STD5	1		STD05REP1
11:55	MA29361-STD6	1		STD06REP1
12:03	MA29361-ICV1	1		
12:04	MA29361-ICB1	1		
12:06	MA29361-CCV1	1		
12:07	MA29361-CCB1	1		
12:08	MA29361-CRI1	1		
12:41	MP66574-MB1	1		
12:42	MP66574-LC1	1		
12:43	MP66574-S1	1		
12:45	MP66574-S2	1		
12:46	JB14888-17	1		(sample used for QC only; not part of login JB15113R)
12:47	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	MA29361-CCV2	1		
12:54	MA29361-CCB2	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:07	MA29361-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
Analyst: VK Run ID: MA29361
Parameters: Hg

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:08	MA29361-CCB3	1		
	13:09	ZZZZZZ	1		
	13:10	ZZZZZZ	1		
	13:12	ZZZZZZ	1		
	13:13	ZZZZZZ	1		
	13:14	JB15113-4R	1		
---------->	Last reportable sample/prep for job JB15113R				
	13:16	MP66575-MB1	1		
	13:17	MP66575-LC1	1		
	13:18	MP66575-S1	1		
	13:19	MP66575-S2	1		
	13:21	JB15498-7A	1		(sample used for QC only; not part of login JB15113R)
	13:22	MA29361-CCV4	1		
	13:23	MA29361-CCB4	1		
	13:25	JB15498-5A	1		(sample used for QC only; not part of login JB15113R)
	13:26	ZZZZZZ	1		
	13:27	ZZZZZZ	1		
	13:29	ZZZZZZ	1		
	13:30	ZZZZZZ	1		
	13:32	ZZZZZZ	1		
	13:33	ZZZZZZ	1		
	13:34	ZZZZZZ	1		
	13:36	ZZZZZZ	1		
	13:37	ZZZZZZ	1		
	13:39	MA29361-CCV5	1		CCV out 20%
	13:40	MA29361-CCB5	1		CCB out
	13:41	ZZZZZZ	1		
	13:46	ZZZZZZ	1		
	13:47	ZZZZZZ	1		
	13:48	ZZZZZZ	1		
	13:50	ZZZZZZ	1		
	13:51	MA29361-CCV6	1		
	13:52	MA29361-CCB6	1		
	13:55	JB15498-5A	1		(sample used for QC only; not part of login JB15113R)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
Analyst: VK Run ID: MA29361
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:56	ZZZZZZ	1		
13:57	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:04	ZZZZZZ	2		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	2		
14:11	ZZZZZZ	50		
14:13	ZZZZZZ	50		
14:14	ZZZZZZ	50		
14:16	MA29361-CCV7	1		
14:18	MA29361-CCB7	1		
14:21	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:27	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:37	ZZZZZZ	10		
14:39	MA29361-CCV8	1		
14:40	MA29361-CCB8	1		
14:42	ZZZZZZ	100		
14:43	ZZZZZZ	100		
15:02	ZZZZZZ	2		
15:04	ZZZZZZ	5		
15:05	ZZZZZZ	20		
15:07	ZZZZZZ	10		
15:08	ZZZZZZ	10		
15:10	ZZZZZZ	5		
15:21	ZZZZZZ	10		
15:22	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
Analyst: VK Run ID: MA29361
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:23	MA29361-CCV9	1		
15:24	MA29361-CCB9	1		
15:29	MP66576-MB1	1		
15:30	MP66576-LC1	1		
15:32	MP66576-S1	1		%Sol
15:33	MP66576-S2	1		%Sol
15:34	JB15769-1	1		(sample used for QC only; not part of login JB15113R)
15:36	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:46	MA29361-CCV10	1		
15:48	MA29361-CCB10	1		
15:49	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:54	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:57	ZZZZZZ	1		
16:00	MA29361-CRI2	1		
16:01	MA29361-CCV11	1		
16:04	MA29361-CCB11	1		

----------> Last reportable CCB for job JB15113R
Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA29361 Units: ug/l

Time:			12:04		12:07		12:54		13:08	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.026	<0.20	-0.027	<0.20	-0.028	<0.20	-0.038	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA29361 Units: ug/l

Time:			13:23		13:40		13:52		14:18	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.032	<0.20	-0.20	<0.20*(a	-0.054	<0.20	-0.040	<0.20

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA29361 Units: ug/l

Time:			14:40		15:24		15:48		16:04	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.059	<0.20	-0.064	<0.20	-0.048	<0.20	0.0020	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29361 Units: ug/l

Time:		12:03			12:06			12:53	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	2.5	2.5	100.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29361 Units: ug/l

Time:		13:07			13:22			13:39	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.4	96.0	2.5	2.5	100.0	2.5	1.8 (a)	72.0*(a)

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

12.2.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29361 Units: ug/l

Time:		13:51			14:16			14:39	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.5	100.0	2.5	2.5	100.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.2.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA29361 Units: ug/l

Time:		15:23			15:46			16:01	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.5	100.0	2.5	2.5	100.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.2.2
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: H20910S1.PRN Date Analyzed: 09/10/12 Methods: SW846 7471B
QC Limits: 50 to 150 % Recovery Run ID: MA29361 Units: ug/l

Time:			12:08		16:00	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.19	95.0	0.20	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.2.3

12

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:13	MA29375-STD1	1		STDA
16:18	MA29375-STD2	1		STDB
16:24	MA29375-STD3	1		STDC
16:29	MA29375-STD4	1		STDD
16:35	MA29375-CCV1	1		
16:41	MA29375-CCB1	1		
16:46	MA29375-CRI1	1		
16:52	MA29375-CRID1	1		
16:58	MA29375-CRIA1	1		
17:03	MA29375-ICV1	1		
17:09	MA29375-ICB1	1		
17:15	MA29375-CCV2	1		
17:20	MA29375-CCB2	1		
17:26	MA29375-CRID2	1		
17:32	ZZZZZZ	1		
17:37	MA29375-ICSA1	1		
17:43	MA29375-ICSAB1	1		
17:49	ZZZZZZ	1		
17:55	ZZZZZZ	1		
18:00	MA29375-CCV3	1		
18:06	MA29375-CCB3	1		
18:12	MP66541-MB2	1		
18:17	MP66541-MB3	1		
18:23	MP66541-MB4	1		
18:29	ZZZZZZ	1		
18:35	MP66539-SD1	5		
18:40	ZZZZZZ	1		
18:46	MP66572-S1	1		
18:52	MP66572-S2	1		
18:58	JB15505-10	1		(sample used for QC only; not part of login JB15113R)
19:03	MP66572-SD1	5		
19:09	MA29375-CCV4	1		
19:15	MA29375-CCB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:20	ZZZZZZ	5		
19:26	ZZZZZZ	1		
19:32	ZZZZZZ	1		
19:38	ZZZZZZ	1		
19:43	ZZZZZZ	1		
19:49	ZZZZZZ	1		
19:55	ZZZZZZ	2		
20:00	ZZZZZZ	2		
20:06	ZZZZZZ	1		
20:12	ZZZZZZ	1		
20:18	MA29375-CCV5	1		
20:23	MA29375-CCB5	1		
20:29	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:40	ZZZZZZ	5		
20:46	ZZZZZZ	1		
20:52	ZZZZZZ	3		
20:57	ZZZZZZ	1		
21:03	ZZZZZZ	1		
21:09	ZZZZZZ	1		
21:14	ZZZZZZ	1		
21:20	ZZZZZZ	1		
21:26	MA29375-CCV6	1		
21:32	MA29375-CCB6	1		
21:37	ZZZZZZ	1		
21:43	ZZZZZZ	1		
21:49	ZZZZZZ	1		
21:54	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:06	MP66529-S1	10		
22:11	MP66529-S2	10		
22:17	MP66529-SD1	50		
----------> Last reportable sample/prep for job JB15113R				
22:23	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:28	ZZZZZZ	1		
22:34	MA29375-CCV7	1		
22:40	MA29375-CCB7	1		
22:46	MP66577-S1	1		
22:51	MP66577-S2	1		
22:57	JB15407-1	1		(sample used for QC only; not part of login JB15113R)
23:03	MP66577-SD1	5		
23:09	ZZZZZZ	1		
23:14	ZZZZZZ	1		
23:20	ZZZZZZ	1		
23:26	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:37	ZZZZZZ	1		
23:43	MA29375-CCV8	1		
23:49	MA29375-CCB8	1		
23:55	MA29375-CRI2	1		
00:00	MA29375-CRID3	1		
00:06	MA29375-CRIA2	1		
00:12	MA29375-ICSA2	1		
00:17	MA29375-ICSAB2	1		
00:23	MA29375-CCV9	1		
00:29	MA29375-CCB9	1		
---------->	Last reportable CCB for job JB15113R			
00:35	ZZZZZZ	1		
00:40	ZZZZZZ	1		
00:46	ZZZZZZ	1		
00:52	ZZZZZZ	1		
00:57	ZZZZZZ	1		
01:03	ZZZZZZ	1		
01:09	ZZZZZZ	1		
01:15	ZZZZZZ	1		
01:20	MA29375-CCV10	1		
01:26	MA29375-CCB10	1		
01:32	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:37	ZZZZZZ	1		
01:43	ZZZZZZ	1		
01:49	ZZZZZZ	1		
01:55	ZZZZZZ	1		
02:00	ZZZZZZ	1		
02:06	ZZZZZZ	1		
02:12	ZZZZZZ	1		
02:18	ZZZZZZ	1		
02:23	ZZZZZZ	1		
02:29	MA29375-CCV11	1		
02:35	MA29375-CCB11	1		
02:40	MP66579-MB1	1		
02:46	MP66579-B1	1		
02:52	MP66579-S1	1		
02:57	MP66579-S2	1		Internal stds bad readings.
03:03	JB14394-30R	1		(sample used for QC only; not part of login JB15113R)
03:08	MP66579-SD1	5		
03:14	ZZZZZZ	1		
03:19	ZZZZZZ	1		
03:25	ZZZZZZ	1		
03:31	ZZZZZZ	1		
03:36	MA29375-CCV12	1		
03:42	MA29375-CCB12	1		
03:48	ZZZZZZ	1		
03:53	ZZZZZZ	1		
03:59	ZZZZZZ	1		
04:05	ZZZZZZ	1		
04:10	ZZZZZZ	1		
04:16	MP66578-MB1	1		
04:22	MP66578-B1	1		
04:27	MP66578-S1	1		
04:33	MP66578-S2	1		
04:39	JB15668-1	1		(sample used for QC only; not part of login JB15113R)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:45	MA29375-CCV13	1		
04:50	MA29375-CCB13	1		
04:56	MP66578-SD1	5		
05:02	ZZZZZZ	1		
05:07	MP66562-MB1	1		
05:13	MP66562-MB2	1		
05:19	MP66562-LC1	1		
05:24	MP66562-S1	1		
05:30	MP66562-S2	1		
05:35	JB14205-16	1		(sample used for QC only; not part of login JB15113R)
05:41	MP66562-SD1	5		
05:47	MP66562-S1	2		
05:52	MA29375-CCV14	1		
05:58	MA29375-CCB14	1		
06:04	MP66562-S2	2		
06:09	JB14205-16	2		(sample used for QC only; not part of login JB15113R)
06:15	MP66562-SD1	10		
06:21	MP66562-S3	2		
06:26	MP66562-S4	2		
06:32	JB14205-16F	2		(sample used for QC only; not part of login JB15113R)
06:38	MP66562-SD2	10		
06:43	ZZZZZZ	1		
06:49	ZZZZZZ	1		
06:55	ZZZZZZ	1		
07:00	MA29375-CCV15	1		
07:06	MA29375-CCB15	1		
07:12	ZZZZZZ	1		
07:17	MA29375-CRI3	1		
07:23	MA29375-CRID4	1		TLNJ out.
07:29	MA29375-CRIA3	1		
07:34	MA29375-ICSA3	1		
07:40	MA29375-ICSAB3	1		
07:46	ZZZZZZ	2		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:13	MA29375-STD1	3556 R	185000 R	40785 R	6981 R
16:18	MA29375-STD2	3435	176690	40518	6362
16:24	MA29375-STD3	3372	172820	40409	6131
16:29	MA29375-STD4	3299	170380	40850	5899
16:35	MA29375-CCV1	No results reported for the elements associated with this internal standard.			
16:41	MA29375-CCB1	No results reported for the elements associated with this internal standard.			
16:46	MA29375-CRI1	3496	182690	41248	6805
16:52	MA29375-CRID1	3502	182940	40961	6895
16:58	MA29375-CRIA1	3541	185210	41369	6996
17:03	MA29375-ICV1	3420	175190	40988	6230
17:09	MA29375-ICB1	3554	185100	41321	7018
17:15	MA29375-CCV2	3408	175890	41158	6201
17:20	MA29375-CCB2	3554	185580	41128	7019
17:26	MA29375-CRID2	3538	184950	41297	6941
17:32	ZZZZZZ	3579	176420	40919	6968
17:37	MA29375-ICSA1	3121	159680	39087	5350
17:43	MA29375-ICSAB1	3114	159740	38814	5339
17:49	ZZZZZZ	999999 !	176630	41895	999999 !
17:55	ZZZZZZ	999999 !	180900	40718	999999 !
18:00	MA29375-CCV3	3390	175500	39985	6156
18:06	MA29375-CCB3	3576	186490	40874	7051
18:12	MP66541-MB2	3532	184580	41554	7002
18:17	MP66541-MB3	3568	185850	41848	7097
18:23	MP66541-MB4	3566	189780	42279	7067
18:29	ZZZZZZ	3599	188910	41999	7178
18:35	MP66539-SD1	3527	186250	42148	6919
18:40	ZZZZZZ	3535	188180	41992	7038
18:46	MP66572-S1	3527	183870	43455	6009
18:52	MP66572-S2	3563	186400	44048	6032
18:58	JB15505-10	3521	183820	43177	6092
19:03	MP66572-SD1	3549	186690	42636	6644
19:09	MA29375-CCV4	3416	176390	40861	6216
19:15	MA29375-CCB4	3589	189730	41705	7090

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:20	ZZZZZZ	3461	181590	41530	6440
19:26	ZZZZZZ	3599	188710	44513	6145
19:32	ZZZZZZ	3505	183540	43075	6077
19:38	ZZZZZZ	3602	188240	43761	6116
19:43	ZZZZZZ	3432	180780	42171	5967
19:49	ZZZZZZ	3556	190040	41711	7062
19:55	ZZZZZZ	3467	175470	41214	6448
20:00	ZZZZZZ	3442	180760	41369	6407
20:06	ZZZZZZ	3321	173680	40308	6138
20:12	ZZZZZZ	3480	183750	40946	6626
20:18	MA29375-CCV5	3421	176950	40281	6210
20:23	MA29375-CCB5	3597	190570	41173	7092
20:29	ZZZZZZ	3429	183100	40277	6516
20:34	ZZZZZZ	999999 !a	154570	39254	999999 !a
20:40	ZZZZZZ	3384	175740	40394	6141
20:46	ZZZZZZ	3299	166250	38222	5804
20:52	ZZZZZZ	3457	176220	40034	6301
20:57	ZZZZZZ	3343	174690	39231	6209
21:03	ZZZZZZ	3431	179710	40144	6452
21:09	ZZZZZZ	3315	173360	39831	6029
21:14	ZZZZZZ	3382	174690	39749	6160
21:20	ZZZZZZ	3346	170720	39431	6090
21:26	MA29375-CCV6	3460	178340	39242	6253
21:32	MA29375-CCB6	3621	191290	40815	7119
21:37	ZZZZZZ	3378	175430	40137	6209
21:43	ZZZZZZ	3469	175730	40951	6603
21:49	ZZZZZZ	3461	186360	39524	6559
21:54	ZZZZZZ	3122	157690	39139	5375
22:00	ZZZZZZ	3289	166960	39278	5787
22:06	MP66529-S1	3395	176720	39220	6093
22:11	MP66529-S2	3365	174910	38884	6035
22:17	MP66529-SD1	3529	183600	38720	6696
22:23	ZZZZZZ	3652	193480	40782	7204

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:28	ZZZZZZ	3089	153340	38286	5338
22:34	MA29375-CCV7	3488	177210	39338	6283
22:40	MA29375-CCB7	3652	192070	40112	7142
22:46	MP66577-S1	2886	148290	37134	4950
22:51	MP66577-S2	2892	148040	37066	4967
22:57	JB15407-1	2846	146260	36528	4900
23:03	MP66577-SD1	3296	170500	38949	5879
23:09	ZZZZZZ	2904	148480	37559	5000
23:14	ZZZZZZ	3092	157120	39573	5329
23:20	ZZZZZZ	3135	156420	38580	5368
23:26	ZZZZZZ	3109	156320	38733	5328
23:32	ZZZZZZ	3084	154920	38449	5318
23:37	ZZZZZZ	2958	151500	37011	5075
23:43	MA29375-CCV8	3514	181990	40322	6337
23:49	MA29375-CCB8	3681	193680	40616	7224
23:55	MA29375-CRI2	3625	190970	40935	7014
00:00	MA29375-CRID3	3656	197130	41864	7151
00:06	MA29375-CRIA2	3670	196030	41676	7203
00:12	MA29375-ICSA2	3219	165690	38514	5477
00:17	MA29375-ICSAB2	3218	165010	38636	5465
00:23	MA29375-CCV9	3545	184270	40322	6375
00:29	MA29375-CCB9	3678	192870	40357	7197
00:35	ZZZZZZ	3605	190020	40635	7046
00:40	ZZZZZZ	3727	196890	41202	7306
00:46	ZZZZZZ	3713	193780	40430	7260
00:52	ZZZZZZ	3686	196160	40835	7192
00:57	ZZZZZZ	3673	194390	40494	7156
01:03	ZZZZZZ	3682	192210	40018	7162
01:09	ZZZZZZ	3305	174860	39282	6016
01:15	ZZZZZZ	3706	195160	40890	7289
01:20	MA29375-CCV10	3525	182320	39908	6330
01:26	MA29375-CCB10	3749	197360	39522	7315
01:32	ZZZZZZ	3701	192180	41394	6697

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:37	ZZZZZZ	3740	194110	42110	6595
01:43	ZZZZZZ	3086	157340	38283	5263
01:49	ZZZZZZ	3143	158200	38755	5376
01:55	ZZZZZZ	3187	160350	38482	5464
02:00	ZZZZZZ	3027	155340	37709	5251
02:06	ZZZZZZ	3177	157560	38290	5466
02:12	ZZZZZZ	3175	160040	38308	5427
02:18	ZZZZZZ	3206	160340	38076	5454
02:23	ZZZZZZ	3191	158940	37671	5464
02:29	MA29375-CCV11	3559	184530	40127	6377
02:35	MA29375-CCB11	3777	196590	40551	7347
02:40	MP66579-MB1	3709	201320	39894	7260
02:46	MP66579-B1	3734	193840	40688	7248
02:52	MP66579-S1	3741	195590	41165	7100
02:57	MP66579-S2	No results reported for the elements associated with this internal standard.			
03:03	JB14394-30R	3783	197500	40191	7200
03:08	MP66579-SD1	3756	185700	40363	7250
03:14	ZZZZZZ	3725	195170	40203	7063
03:19	ZZZZZZ	3696	194490	39913	7056
03:25	ZZZZZZ	3725	197640	39792	7089
03:31	ZZZZZZ	3758	195860	40200	7153
03:36	MA29375-CCV12	3595	185040	39357	6417
03:42	MA29375-CCB12	3777	198270	39993	7318
03:48	ZZZZZZ	3736	196130	40001	7125
03:53	ZZZZZZ	3748	196660	39678	7173
03:59	ZZZZZZ	3805	200350	40373	7214
04:05	ZZZZZZ	3813	196200	38607	7312
04:10	ZZZZZZ	3832	195890	38770	7360
04:16	MP66578-MB1	3231	160920	37817	5517
04:22	MP66578-B1	3259	164900	36827	5522
04:27	MP66578-S1	3082	156300	37562	5289
04:33	MP66578-S2	3057	154110	36365	5231
04:39	JB15668-1	3069	157640	36813	5246

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:45	MA29375-CCV13	3588	184680	38993	6411
04:50	MA29375-CCB13	3807	198840	39335	7369
04:56	MP66578-SD1	3496	178510	38454	6237
05:02	ZZZZZZ	3188	999999 !a	38199	5433
05:07	MP66562-MB1	3750	201070	39990	7305
05:13	MP66562-MB2	3813	199490	39930	7409
05:19	MP66562-LC1	3713	193540	39618	6993
05:24	MP66562-S1	3474	175570	38543	6121
05:30	MP66562-S2	3467	179840	38971	6106
05:35	JB14205-16	3510	180420	39141	6249
05:41	MP66562-SD1	3717	194040	39132	6915
05:47	MP66562-S1	3559	184820	39285	6421
05:52	MA29375-CCV14	3614	185710	39184	6436
05:58	MA29375-CCB14	3847	200490	39824	7449
06:04	MP66562-S2	3577	177900	39740	6443
06:09	JB14205-16	3631	187110	39478	6600
06:15	MP66562-SD1	3779	196420	39977	7142
06:21	MP66562-S3	3546	182860	38490	6388
06:26	MP66562-S4	3592	185770	38842	6471
06:32	JB14205-16F	3616	187880	39835	6574
06:38	MP66562-SD2	3746	193560	38979	7083
06:43	ZZZZZZ	3776	201880	40477	7362
06:49	ZZZZZZ	3641	189630	38356	6792
06:55	ZZZZZZ	3688	193720	39313	6865
07:00	MA29375-CCV15	3630	186060	38681	6465
07:06	MA29375-CCB15	999999 !a	197390	41554	999999 !a
07:12	ZZZZZZ	3804	201470	39355	7410
07:17	MA29375-CRI3	3755	196570	39790	7152
07:23	MA29375-CRID4	3842	202230	40494	7411
07:29	MA29375-CRIA3	3896	203570	40289	7527
07:34	MA29375-ICSA3	3318	171120	37578	5587
07:40	MA29375-ICSAB3	3343	172200	37668	5619
07:46	ZZZZZZ	3587	185160	38392	6502

R = Reference for ISTD limits. ! = Outside limits.

INTERNAL STANDARD SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
Analyst: CS Run ID: MA29375
Parameters: Al,Ca,Co,Pb,Mn,Ni,Se,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:			17:09		17:20		18:06		19:15	
Sample ID:			ICB1		CCB2		CCB3		CCB4	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	5.2	2.5	<200	5.0	<200	-4.4	<200	-4.4	<200
Antimony	6.0	.8	anr							
Arsenic	3.0	.9	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	.5								
Boron	100	.8								
Cadmium	3.0	.1	anr							
Calcium	5000	3	-6.0	<5000	-6.2	<5000	-7.5	<5000	-7.3	<5000
Chromium	10	.3	anr							
Cobalt	50	.1	-0.10	<50	-0.10	<50	-0.10	<50	0.0	<50
Copper	10	.4	anr							
Iron	100	3.4	anr							
Lead	3.0	.6	-0.30	<3.0	0.30	<3.0	0.10	<3.0	0.0	<3.0
Lithium	20	1								
Magnesium	5000	15	anr							
Manganese	15	.1	-0.10	<15	0.0	<15	0.0	<15	0.0	<15
Molybdenum	20	.2								
Nickel	10	.2	0.0	<10	0.10	<10	-0.20	<10	0.0	<10
Palladium	50	1.1								
Potassium	10000	22	anr							
Selenium	10	1	0.30	<10	1.1	<10	1.1	<10	0.60	<10
Silicon	200	4.1								
Silver	10	.5	anr							
Sodium	10000	6	anr							
Sulfur	50	5								
Strontium	10	.1								
Thallium	2.0	.6	-0.10	<2.0	0.20	<2.0	-0.30	<2.0	0.70	<2.0
Tin	10	.4								
Titanium	10	.3								
Tungsten	50	1.2								
Vanadium	50	.3	-0.20	<50	-0.10	<50	0.0	<50	-0.30	<50
Zinc	20	.4	-0.20	<20	-0.30	<20	-0.40	<20	-0.30	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.2

(*) Outside of QC limits
(anr) Analyte not requested

12.3.2

12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:			20:23		21:32		22:40		23:49	
Sample ID:			CCB5		CCB6		CCB7		CCB8	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	5.2	0.40	<200	-0.60	<200	-2.8	<200	-6.3	<200
Antimony	6.0	.8	anr							
Arsenic	3.0	.9	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	.5								
Boron	100	.8								
Cadmium	3.0	.1	anr							
Calcium	5000	3	-6.1	<5000	-7.0	<5000	-8.0	<5000	-9.9	<5000
Chromium	10	.3	anr							
Cobalt	50	.1	0.0	<50	-0.10	<50	-0.10	<50	-0.10	<50
Copper	10	.4	anr							
Iron	100	3.4	anr							
Lead	3.0	.6	0.40	<3.0	0.40	<3.0	0.30	<3.0	0.30	<3.0
Lithium	20	1								
Magnesium	5000	15	anr							
Manganese	15	.1	0.0	<15	0.0	<15	0.0	<15	-0.10	<15
Molybdenum	20	.2								
Nickel	10	.2	0.0	<10	0.0	<10	0.10	<10	0.0	<10
Palladium	50	1.1								
Potassium	10000	22	anr							
Selenium	10	1	1.1	<10	1.1	<10	1.0	<10	0.90	<10
Silicon	200	4.1								
Silver	10	.5	anr							
Sodium	10000	6	anr							
Sulfur	50	5								
Strontium	10	.1								
Thallium	2.0	.6	0.0	<2.0	0.30	<2.0	0.30	<2.0	0.50	<2.0
Tin	10	.4								
Titanium	10	.3								
Tungsten	50	1.2								
Vanadium	50	.3	-0.20	<50	0.0	<50	0.0	<50	-0.30	<50
Zinc	20	.4	-0.20	<20	-0.20	<20	-0.30	<20	-0.30	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.2

(*) Outside of QC limits
(anr) Analyte not requested

12.3.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:			00:29	
Sample ID:			CCB9	
Metal	RL	IDL	raw	final
Aluminum	200	5.2	-3.3	<200
Antimony	6.0	.8	anr	
Arsenic	3.0	.9	anr	
Barium	200	.3	anr	
Beryllium	1.0	.1	anr	
Bismuth	20	.5		
Boron	100	.8		
Cadmium	3.0	.1	anr	
Calcium	5000	3	-12	<5000
Chromium	10	.3	anr	
Cobalt	50	.1	0.0	<50
Copper	10	.4	anr	
Iron	100	3.4	anr	
Lead	3.0	.6	0.30	<3.0
Lithium	20	1		
Magnesium	5000	15	anr	
Manganese	15	.1	0.0	<15
Molybdenum	20	.2		
Nickel	10	.2	0.0	<10
Palladium	50	1.1		
Potassium	10000	22	anr	
Selenium	10	1	1.1	<10
Silicon	200	4.1		
Silver	10	.5	anr	
Sodium	10000	6	anr	
Sulfur	50	5		
Strontium	10	.1		
Thallium	2.0	.6	0.30	<2.0
Tin	10	.4		
Titanium	10	.3		
Tungsten	50	1.2		
Vanadium	50	.3	-0.10	<50
Zinc	20	.4	-0.20	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA29375 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	.2

(*) Outside of QC limits
(anr) Analyte not requested

12.3.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:		17:03			17:15			18:00	
Sample ID:	ICV	ICV1		CCV	CCV2		CCV	CCV3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39600	99.0	40000	40400	101.0
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	40000	39900	99.8	40000	39700	99.3	40000	40700	101.8
Chromium	anr								
Cobalt	2000	1990	99.5	2000	1990	99.5	2000	2010	100.5
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	1980	99.0	2000	2010	100.5
Lithium									
Magnesium	anr								
Manganese	2000	2020	101.0	2000	2010	100.5	2000	2040	102.0
Molybdenum									
Nickel	2000	1970	98.5	2000	1980	99.0	2000	2010	100.5
Palladium									
Potassium	anr								
Selenium	2000	1960	98.0	2000	1970	98.5	2000	2010	100.5
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	1990	99.5	2000	2000	100.0	2000	2020	101.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Zinc	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:		19:09			20:18			21:26	
Sample ID:	CCV	CCV4		CCV	CCV5		CCV	CCV6	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40200	100.5	40000	41100	102.8
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	40000	39900	99.8	40000	40100	100.3	40000	41000	102.5
Chromium	anr								
Cobalt	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Lithium									
Magnesium	anr								
Manganese	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Molybdenum									
Nickel	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Palladium									
Potassium	anr								
Selenium	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Zinc	2000	1970	98.5	2000	1990	99.5	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:		22:34			23:43			00:23	
Sample ID:	CCV	CCV7		CCV	CCV8		CCV	CCV9	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40000	100.0	40000	39700	99.3
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	40000	40400	101.0	40000	39400	98.5	40000	39100	97.8
Chromium	anr								
Cobalt	2000	1980	99.0	2000	1960	98.0	2000	1940	97.0
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Lithium									
Magnesium	anr								
Manganese	2000	2060	103.0	2000	2010	100.5	2000	1980	99.0
Molybdenum									
Nickel	2000	2010	100.5	2000	1990	99.5	2000	1980	99.0
Palladium									
Potassium	anr								
Selenium	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	2000	100.0	2000	1980	99.0	2000	1970	98.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	1950	97.5	2000	1920	96.0
Zinc	2000	2000	100.0	2000	1970	98.5	2000	1960	98.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA29375 Units: ug/l

Time:	
Sample ID:	
Metal	
Zirconium	

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:				16:46		16:52		16:58	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	208	104.0	105	105.0	502	100.4
Antimony	6.0	20	3.0	anr					
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	anr					
Beryllium	2.0		1.0	anr					
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	5000	100.0	1050	105.0		
Chromium	10		2.0	anr					
Cobalt	50		3.0	55.9	111.8	3.1	103.3		
Copper	10		2.0	anr					
Iron	100	500		anr					
Lead	3.0	20	2.5	3.0	100.0	2.5	100.0	19.8	99.0
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	16.1	107.3	3.2	106.7		
Molybdenum	20		4.0						
Nickel	10		4.0	9.9	99.0	4.0	100.0		
Palladium	50								
Potassium	5000		2000	anr					
Selenium	10	20	5.0	11.3	113.0	6.3	126.0	19.1	95.5
Silicon	200								
Silver	5.0		1.0	anr					
Sodium	5000		1000	anr					
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	11.3	113.0	1.9	95.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	52.2	104.4	2.1	105.0		
Zinc	20		10	21.9	109.5	11.4	114.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4

12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:				17:26		23:55		00:00	
Sample ID:	CRI	CRIA	CRID	CRID2		CRI2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	96.0	96.0	206	103.0	96.1	96.1
Antimony	6.0	20	3.0	anr					
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	anr					
Beryllium	2.0		1.0	anr					
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	1030	103.0	4890	97.8	989	98.9
Chromium	10		2.0	anr					
Cobalt	50		3.0	3.0	100.0	54.4	108.8	3.1	103.3
Copper	10		2.0	anr					
Iron	100	500							
Lead	3.0	20	2.5	2.7	108.0	3.5	116.7	3.3	132.0*(a
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	3.2	106.7	15.9	106.0	3.1	103.3
Molybdenum	20		4.0						
Nickel	10		4.0	4.1	102.5	10.0	100.0	4.0	100.0
Palladium	50								
Potassium	5000		2000	anr					
Selenium	10	20	5.0	5.7	114.0	10.0	100.0	5.5	110.0
Silicon	200								
Silver	5.0		1.0	anr					
Sodium	5000		1000	anr					
Sulfur	50	50	50						
Strontium	10								
Thallium	10		2.0	1.8	90.0	10.7	107.0	1.4	70.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	1.9	95.0	49.9	99.8	1.7	85.0
Zinc	20		10	11.3	113.0	21.5	107.5	11.1	111.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:		
Sample ID:		
Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.3.4

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LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:				00:06	
Sample ID:	CRI	CRIA	CRID	CRIA2	
Metal	True	True	True	Results	% Rec
Aluminum	200	500	100	488	97.6
Antimony	6.0	20	3.0	anr	
Arsenic	8.0	20	3.0	anr	
Barium	200		4.0		
Beryllium	2.0		1.0		
Bismuth	20				
Boron	100		10		
Cadmium	3.0		1.0		
Calcium	5000		1000		
Chromium	10		2.0		
Cobalt	50		3.0		
Copper	10		2.0		
Iron	100	500		anr	
Lead	3.0	20	2.5	19.8	99.0
Lithium	20				
Magnesium	5000		100		
Manganese	15		3.0		
Molybdenum	20		4.0		
Nickel	10		4.0		
Palladium	50				
Potassium	5000		2000		
Selenium	10	20	5.0	18.9	94.5
Silicon	200				
Silver	5.0		1.0		
Sodium	5000		1000		
Sulfur	50	50	50		
Strontium	10				
Thallium	10		2.0		
Tin	10				
Titanium	10				
Tungsten	50				
Vanadium	50		2.0		
Zinc	20		10		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA29375 Units: ug/l

Time:
Sample ID:

Metal		
Zirconium	10	5.0

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4

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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29375 Units: ug/l

Time:			17:37		17:43		00:12		00:17	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	497000	99.4	505000	101.0	503000	100.6	507000	101.4
Antimony		1000	10.2		1050	105.0	9.5		1040	104.0
Arsenic		1000	4.3		1010	101.0	2.5		1000	100.0
Barium		500	-1.1		502	100.4	-1.1		504	100.8
Beryllium		500	0.50		475	95.0	0.50		467	93.4
Bismuth		500	2.1		474	94.8	-1.2		459	91.8
Boron			-1.4		-6.4		-1.9		-6.5	
Cadmium		1000	0.10		985	98.5	0.10		966	96.6
Calcium	400000	400000	370000	92.5	374000	93.5	364000	91.0	369000	92.3
Chromium		500	-0.30		449	89.8	0.0		450	90.0
Cobalt		500	-3.4		437	87.4	-3.9		425	85.0
Copper		500	3.6		479	95.8	7.7		476	95.2
Iron	200000	200000	195000	97.5	194000	97.0	202000	101.0	203000	101.5
Lead		1000	-0.70		903	90.3	0.90		913	91.3
Lithium		500	9.3		546	109.2	7.5		546	109.2
Magnesium	500000	500000	509000	101.8	514000	102.8	493000	98.6	491000	98.2
Manganese		500	5.6		473	94.6	5.3		468	93.6
Molybdenum		500	0.10		475	95.0	-0.30		476	95.2
Nickel		1000	-2.6		915	91.5	-2.9		911	91.1
Palladium		500	-32		488	97.6	-30		488	97.6
Potassium			147		171		131		139	
Selenium		1000	5.4		956	95.6	4.3		949	94.9
Silicon			-3.9		-4.5		-7.5		-6.6	
Silver		1000	5.1		1030	103.0	4.7		1050	105.0
Sodium			18.5		35.3		144		128	
Sulfur		500	-11		451	90.2	-13		441	88.2
Strontium			-0.60		-0.50		-0.50		-0.50	
Thallium		1000	-1.5		927	92.7	-1.5		914	91.4
Tin			-2.9		-2.6		-2.5		-1.7	
Titanium			0.70		1.1		0.70		1.2	
Tungsten		500	16.9		501	100.2	9.4		484	96.8
Vanadium		500	4.1		457	91.4	4.5		444	88.8
Zinc		1000	-3.8		887	88.7	-4.1		870	87.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

File ID: SD091112M2.ICP Date Analyzed: 09/11/12 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA29375 Units: ug/l

Time:							
Sample ID:							
Metal							
Zirconium	500	2.7	451	90.2	2.2	445	89.0

(*) Outside of QC limits
(anr) Analyte not requested

12.3.5

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BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/07/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1	.74	1.8	<50
Antimony	2.0	.12	.15	0.010	<2.0
Arsenic	2.0	.08	.13	0.0	<2.0
Barium	20	.04	.054	0.050	<20
Beryllium	0.20	.009	.02	0.010	<0.20
Bismuth	2.0	.16	.14		
Boron	10	.12	.14		
Cadmium	0.50	.02	.025	0.0	<0.50
Calcium	500	2.3	2.3	4.1	<500
Chromium	1.0	.04	.11	0.060	<1.0
Cobalt	5.0	.04	.031	-0.010	<5.0
Copper	2.5	.06	.13	0.050	<2.5
Iron	50	.42	.79	2.6	<50
Lead	2.0	.1	.11	0.19	<2.0
Lithium	2.0	.14	.25		
Magnesium	500	2.8	3.1	1.7	<500
Manganese	1.5	.02	.048	0.15	<1.5
Molybdenum	2.0	.03	.074		
Nickel	4.0	.04	.11	0.040	<4.0
Palladium	5.0	.13	.17		
Potassium	1000	5.1	14	4.3	<1000
Selenium	2.0	.16	.24	-0.010	<2.0
Silicon	20	1	1.9		
Silver	0.50	.06	.063	0.010	<0.50
Sodium	1000	1.5	13	-0.14	<1000
Strontium	1.0	.02	.17		
Sulfur	5.0	.28	.65		
Thallium	1.0	.14	.22	0.050	<1.0
Tin	5.0	.07	1.5		
Titanium	1.0	.06	.62		
Tungsten	5.0	.41	1.1		
Vanadium	5.0	.03	.1	0.010	<5.0
Zinc	2.0	.19	.19	0.26	<2.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal			
Zirconium	2.0	.03	.1

Associated samples MP66529: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

12.4.1
12

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/07/12

Metal	JB14888-17 Original	MS	Spikelot MPIOS5	% Rec	QC Limits
Aluminum	3010	7880	5410	90.0	75-125
Antimony	1.9	50.5	100	49.7N(a)	75-125
Arsenic	5.7	358	401	87.9	75-125
Barium	127	500	401	93.0	75-125
Beryllium	0.18	8.6	10	83.3	75-125
Bismuth					
Boron					
Cadmium	0.35	9.4	10	90.3	75-125
Calcium	273000	284000	1250	877.8(b)	75-125
Chromium	3.8	34.4	40.1	76.3	75-125
Cobalt	6.5	88.8	100	82.1	75-125
Copper	21.4	59.3	50.1	85.2	75-125
Iron	10400	15400	5210	95.9	75-125
Lead	5.9	92.1	100	86.0	75-125
Lithium					
Magnesium	34700	38000	1250	135.7(b)	75-125
Manganese	312	401	100	88.8	75-125
Molybdenum					
Nickel	36.3	122	100	85.5	75-125
Palladium					
Potassium	91.2	1450	1250	108.8	75-125
Selenium	3.4	332	401	81.9	75-125
Silicon					
Silver	2.3	9.7	10	96.8	75-125
Sodium	41.5	1330	1250	102.8	75-125
Strontium					
Sulfur					
Thallium	1.5	334	401	82.9	75-125
Tin					
Titanium					
Tungsten					
Vanadium	13.0	91.7	100	78.5	75-125
Zinc	22.8	106	100	83.0	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP66529: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) The Sb recovery was confirmed on dilution and had good internal standard recoveries.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/07/12

Metal	JB14888-17 Original	MSD	Spikelot MPIOS5	% Rec	MSD RPD	QC Limit
Aluminum	3010	8260	5330	98.4	4.7	20
Antimony	1.9	49.0	98.8	48.9N(a)	3.0	20
Arsenic	5.7	349	395	86.9	2.5	20
Barium	127	489	395	91.6	2.2	20
Beryllium	0.18	8.4	9.88	82.5	2.4	20
Bismuth						
Boron						
Cadmium	0.35	9.1	9.88	88.6	3.2	20
Calcium	273000	286000	1230	1052.9(b	0.7	20
Chromium	3.8	34.1	39.5	76.7	0.9	20
Cobalt	6.5	89.6	98.8	84.1		20
Copper	21.4	59.0	49.4	85.9	0.5	20
Iron	10400	15300	5140	95.4	0.7	20
Lead	5.9	92.1	98.8	87.3	0.0	20
Lithium						
Magnesium	34700	38500	1230	178.2(b)	1.3	20
Manganese	312	404	98.8	93.1	12.9	20
Molybdenum						
Nickel	36.3	131	98.8	95.9	7.1	20
Palladium						
Potassium	91.2	1420	1230	108.0	2.1	20
Selenium	3.4	332	395	83.2	0.0	20
Silicon						
Silver	2.3	9.5	9.88	96.2	2.1	20
Sodium	41.5	1300	1230	101.9	2.3	20
Strontium						
Sulfur						
Thallium	1.5	334	395	84.2	0.0	20
Tin						
Titanium						
Tungsten						
Vanadium	13.0	93.5	98.8	81.5	10.7	20
Zinc	22.8	107	98.8	85.2	17.7	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529 | Methods: SW846 6010C
Matrix Type: SOLID | Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP66529: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) The Sb recovery was confirmed on dilution and had good internal standard recoveries.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/07/12

Metal	BSP Result	Spikelot MPIOS5	% Rec	QC Limits
Aluminum	5030	5400	93.1	80-120
Antimony	93.6	100	93.6	80-120
Arsenic	358	400	89.5	80-120
Barium	366	400	91.5	80-120
Beryllium	9.2	10	92.0	80-120
Bismuth				
Boron				
Cadmium	9.2	10	92.0	80-120
Calcium	1180	1250	94.4	80-120
Chromium	38.2	40	95.5	80-120
Cobalt	93.7	100	93.7	80-120
Copper	44.2	50	88.4	80-120
Iron	4880	5200	93.8	80-120
Lead	90.3	100	90.3	80-120
Lithium				
Magnesium	1120	1250	89.6	80-120
Manganese	95.7	100	95.7	80-120
Molybdenum				
Nickel	93.1	100	93.1	80-120
Palladium				
Potassium	1150	1250	92.0	80-120
Selenium	344	400	86.0	80-120
Silicon				
Silver	9.3	10	93.0	80-120
Sodium	1150	1250	92.0	80-120
Strontium				
Sulfur				
Thallium	365	400	91.3	80-120
Tin				
Titanium				
Tungsten				
Vanadium	87.5	100	87.5	80-120
Zinc	92.2	100	92.2	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP66529: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/07/12

Metal	JB14888-17 Original	SDL 1:5	%DIF	QC Limits
Aluminum	30600	31300	2.4	0-10
Antimony	19.0	7.60	10.1 (a)	0-10
Arsenic	57.3	65.2	13.8*(b)	0-10
Barium	1280	1210	5.7	0-10
Beryllium	1.80	3.10	24.0 (a)	0-10
Bismuth				
Boron				
Cadmium	3.50	2.80	20.0 (a)	0-10
Calcium	2770000	3000000	8.3	0-10
Chromium	38.5	47.2	22.6*(b)	0-10
Cobalt	66.3	68.6	9.8	0-10
Copper	168	163	3.3	0-10
Iron	108000	110000	3.9	0-10
Lead	60.2	99.2	64.8 (a)	0-10
Lithium				
Magnesium	352000	361000	1.9	0-10
Manganese	3160	3250	2.8	0-10
Molybdenum				
Nickel	368	366	0.5	0-10
Palladium				
Potassium	875	1010	15.3 (a)	0-10
Selenium	34.9	0.00	100.0(a)	0-10
Silicon				
Silver	23.3	0.00	NC	0-10
Sodium	421	461	9.6	0-10
Strontium				
Sulfur				
Thallium	15.6	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	132	119	10.2 (a)	0-10
Zinc	231	253	18.1*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66529
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal
Zirconium

Associated samples MP66529: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66574
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/10/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0058	.013	0.0048	<0.033

Associated samples MP66574: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66574
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/10/12

Metal	JB14888-17 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.0	0.50	0.51	98.0	75-125

Associated samples MP66574: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66574 | Methods: SW846 7471B
Matrix Type: SOLID | Units: mg/kg

Prep Date: 09/10/12

Metal	JB14888-17 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.62	0.508	122.1	21.4	

Associated samples MP66574: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB15113R
Account: LANGAN - Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

QC Batch ID: MP66574
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/10/12

Metal	LCS Result	Spikelot HGLCS76540	% Rec	QC Limits
Mercury	3.2	3.73	85.8	72-128

Associated samples MP66574: JB15113-4R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

12.5.3

12

New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB15113R
Account: LANGAN Langan Engineering & Environmental
Project: 508 West 24th Street, Manhattan, NY

Sample: JB15113-4R **Analyzed:** 07-SEP-12 by KP **Method:** SM18 2540G
ClientID: 046-PE 7B-1.5'-2'

Wet Weight (Total)	28.94	g
Tare Weight	22.62	g
Dry Weight (Total)	28.24	g
Solids, Percent	88.9	%

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
619 River Drive Center 1
Elmwood Park NJ, 07407-1338
Attention: Amanda Forsburg

Report Date: 10/24/2012
Client Project ID: 100242701
York Project (SDG) No.: 12J0486

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA License No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

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York Project/SDG No. 12J0486

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Report Date: 10/24/2012
Client Project ID: 100242701
York Project (SDG) No.: 12J0486

Langan Engineering & Environmental Services (NJ)
619 River Drive Center 1
Elmwood Park NJ, 07407-1338
Attention: Amanda Forsburg

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 12, 2012 and listed below. The project was identified as your project: **100242701**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
12J0486-01	Langan #048	Soil	10/12/2012	10/12/2012
12J0486-02	Langan #049	Soil	10/12/2012	10/12/2012

General Notes for York Project (SDG) No.: 12J0486

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 10/24/2012

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **Langan #048** **York Sample ID:** **12J0486-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12J0486	100242701	Soil	October 12, 2012 3:00 pm	10/12/2012

Pesticides, 8081 target list

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
309-00-2	Aldrin	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
72-20-8	Endrin	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.82	1.82	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.12	9.12	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW
8001-35-2	Toxaphene	ND		ug/kg dry	92.3	92.3	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:09	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.2 %*	*30-150*

Metals, Target Analyte

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7430**		mg/kg dry	1.13	2.21	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-36-0	Antimony	ND		mg/kg dry	0.243	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-38-2	**Arsenic**	**3.25**		mg/kg dry	0.376	1.11	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-39-3	**Barium**	**56.9**		mg/kg dry	0.144	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-41-7	**Beryllium**	**0.402**		mg/kg dry	0.111	0.111	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.111	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-70-2	**Calcium**	**6330**	B	mg/kg dry	0.044	2.21	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-47-3	**Chromium**	**14.9**		mg/kg dry	0.133	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW

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Sample Information

Client Sample ID: **Langan #048** **York Sample ID:** **12J0486-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12J0486	100242701	Soil	October 12, 2012 3:00 pm	10/12/2012

Metals, Target Analyte

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	**Cobalt**	**5.74**		mg/kg dry	0.088	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-50-8	**Copper**	**23.7**		mg/kg dry	0.133	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7439-89-6	**Iron**	**14600**	B	mg/kg dry	0.718	1.11	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7439-92-1	**Lead**	**75.2**		mg/kg dry	0.188	0.332	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7439-95-4	**Magnesium**	**2960**		mg/kg dry	0.497	2.21	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7439-96-5	**Manganese**	**347**		mg/kg dry	0.122	1.11	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-02-0	**Nickel**	**19.4**		mg/kg dry	0.144	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-09-7	**Potassium**	**1260**		mg/kg dry	3.74	11.1	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7782-49-2	**Selenium**	**2.76**		mg/kg dry	0.553	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-22-4	Silver	ND		mg/kg dry	0.111	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-23-5	**Sodium**	**237**		mg/kg dry	5.82	11.1	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-28-0	Thallium	ND		mg/kg dry	0.354	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-62-2	**Vanadium**	**20.9**		mg/kg dry	0.122	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW
7440-66-6	**Zinc**	**57.2**		mg/kg dry	0.099	0.553	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 02:55	MW

Mercury by 7470/7471

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.104	0.111	1	EPA SW846-7471	10/16/2012 09:04	10/17/2012 14:06	AA

Total Solids

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**90.5**		%	0.100	0.100	1	SM 2540G	10/17/2012 09:50	10/17/2012 09:50	AD

Sample Information

Client Sample ID: **Langan #049** **York Sample ID:** **12J0486-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12J0486	100242701	Soil	October 12, 2012 3:00 pm	10/12/2012

Pesticides, 8081 target list

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
309-00-2	Aldrin	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW

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ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **Langan #049** **York Sample ID:** **12J0486-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12J0486	100242701	Soil	October 12, 2012 3:00 pm	10/12/2012

Pesticides, 8081 target list

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
72-20-8	Endrin	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.87	1.87	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.37	9.37	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW
8001-35-2	Toxaphene	ND		ug/kg dry	94.9	94.9	5	EPA SW 846-8081	10/16/2012 13:45	10/17/2012 11:24	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.3 %*	*30-150*

Metals, Target Analyte

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7500**		mg/kg dry	1.16	2.27	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-36-0	**Antimony**	**0.604**		mg/kg dry	0.250	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-38-2	**Arsenic**	**7.87**		mg/kg dry	0.386	1.14	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-39-3	**Barium**	**148**		mg/kg dry	0.148	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-41-7	**Beryllium**	**0.354**		mg/kg dry	0.114	0.114	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.114	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-70-2	**Calcium**	**11700**	B	mg/kg dry	0.045	2.27	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-47-3	**Chromium**	**21.2**		mg/kg dry	0.136	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-48-4	**Cobalt**	**7.32**		mg/kg dry	0.091	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-50-8	**Copper**	**39.1**		mg/kg dry	0.136	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7439-89-6	**Iron**	**17400**	B	mg/kg dry	0.739	1.14	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7439-92-1	**Lead**	**470**		mg/kg dry	0.193	0.341	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7439-95-4	**Magnesium**	**3190**		mg/kg dry	0.511	2.27	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **Langan #049** **York Sample ID:** **12J0486-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12J0486	100242701	Soil	October 12, 2012 3:00 pm	10/12/2012

Metals, Target Analyte

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**382**		mg/kg dry	0.125	1.14	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-02-0	**Nickel**	**27.7**		mg/kg dry	0.148	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-09-7	**Potassium**	**1610**		mg/kg dry	3.84	11.4	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7782-49-2	**Selenium**	**4.14**		mg/kg dry	0.568	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-22-4	Silver	ND		mg/kg dry	0.114	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-23-5	**Sodium**	**312**		mg/kg dry	5.99	11.4	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-28-0	Thallium	ND		mg/kg dry	0.364	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-62-2	**Vanadium**	**29.8**		mg/kg dry	0.125	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW
7440-66-6	**Zinc**	**129**		mg/kg dry	0.102	0.568	1	EPA SW846-6010B	10/15/2012 16:24	10/16/2012 03:00	MW

Mercury by 7470/7471

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.107	0.114	1	EPA SW846-7471	10/16/2012 09:04	10/17/2012 14:06	AA

Total Solids

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**88.0**		%	0.100	0.100	1	SM 2540G	10/17/2012 09:50	10/17/2012 09:50	AD

YORK
ANALYTICAL LABORATORIES, INC.

Case Narrative

Client: Langan Engineering & Environmental Services (NJ)
Client Project ID: 100242701
Prepared for: Amanda Forsburg

Introduction

This Case Narrative applies only to the following samples submitted to our laboratory on **10/12/2012 6:00:00 PM** :

Langan #048 Soil
Langan #049 Soil

The 2 sample (s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature(s) was acceptable (2-6oC) and measured at time of receipt in Cooler 1 @ 4.3 C as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the methods referenced in the body of the lab report.

Sample and Analysis Qualifiers

Langan #048 Soil No qualifiers
Langan #049 Soil No qualifiers

Analysis Issues (Calibration, Others)

No problems encountered other than those listed as follows. For metals, the batch preparation blank showed the presence of calcium (0.0576 mg/L) and iron (0.0268 mg/L). It is noted that all samples showed detections of calcium and iron at levels greater than 10x these blank levels.

York Project/SDG no.: 12J0486 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Robert Q. Bradley* *October 24, 2012*
Laboratory Director

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m3

Cx (ug/m3)= Compound concentration in ug/m3

$$Cx\ (ug/m3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kG

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%solids)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kG
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF= Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V= Volume for liquids in ml, weight for soils/solids in grams.
VA= volume of MeOH aliquot for medium level soils
VE= final volume of concentrated extract

VT= volume of MeOH for volatiles medium level soils
CF= calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BJ20719 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
12J0486-01	Langan #048	10/15/12
12J0486-02	Langan #049	10/15/12
BJ20719-BLK1	Blank	10/15/12
BJ20719-SRM1	Reference	10/15/12

Batch ID: BJ20723 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
12J0486-01	Langan #048	10/16/12
12J0486-02	Langan #049	10/16/12
BJ20723-BLK1	Blank	10/16/12
BJ20723-BS1	LCS	10/16/12
BJ20723-MS1	Matrix Spike	10/16/12
BJ20723-MSD1	Matrix Spike Dup	10/16/12

Batch ID: BJ20736 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
12J0486-01	Langan #048	10/16/12
12J0486-02	Langan #049	10/16/12
BJ20736-BLK1	Blank	10/16/12
BJ20736-BS1	LCS	10/16/12

Batch ID: BJ20751 **Preparation Method:** % Solids Prep **Prepared By:** JCC

YORK Sample ID	Client Sample ID	Preparation Date
12J0486-01	Langan #048	10/17/12
12J0486-02	Langan #049	10/17/12

YORK
ANALYTICAL LABORATORIES, INC.

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ20723 - EPA 3550B											
Blank (BJ20723-BLK1)								Prepared: 10/16/2012 Analyzed: 10/17/2012			
4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
beta-BHC	ND	0.330	"								
gamma-Chlordane	ND	0.330	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	1.65	"								
alpha-Chlordane	ND	0.330	"								
Toxaphene	ND	16.7	"								
Surrogate: Decachlorobiphenyl	*78.2*		*"*	*67.0*		*117*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*65.9*		*"*	*67.0*		*98.4*	*30-150*				
LCS (BJ20723-BS1)								Prepared: 10/16/2012 Analyzed: 10/17/2012			
4,4'-DDD	34.6	0.330	ug/kg wet	33.3		104	40-140				
4,4'-DDE	31.2	0.330	"	33.3		93.7	40-140				
4,4'-DDT	34.8	0.330	"	33.3		104	40-140				
Aldrin	29.6	0.330	"	33.3		88.9	40-140				
alpha-BHC	28.8	0.330	"	33.3		86.4	40-140				
beta-BHC	32.2	0.330	"	33.3		96.5	40-140				
gamma-Chlordane	31.2	0.330	"	33.3		93.6	40-140				
delta-BHC	31.0	0.330	"	33.3		93.1	40-140				
Dieldrin	32.8	0.330	"	33.3		98.5	40-140				
Endosulfan I	31.5	0.330	"	33.3		94.6	40-140				
Endosulfan II	37.9	0.330	"	33.3		114	40-140				
Endosulfan sulfate	33.7	0.330	"	33.3		101	40-140				
Endrin	30.1	0.330	"	33.3		90.3	40-140				
Endrin aldehyde	28.6	0.330	"	33.3		85.9	40-140				
Endrin ketone	32.1	0.330	"	33.3		96.4	40-140				
gamma-BHC (Lindane)	29.3	0.330	"	33.3		88.0	40-140				
Heptachlor	29.7	0.330	"	33.3		89.0	40-140				
Heptachlor epoxide	30.5	0.330	"	33.3		91.5	40-140				
Methoxychlor	33.5	1.65	"	33.3		101	40-140				
alpha-Chlordane	32.6	0.330	"	33.3		97.8	40-140				
Surrogate: Decachlorobiphenyl	*45.5*		*"*	*67.0*		*67.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*44.3*		*"*	*67.0*		*66.1*	*30-150*				

YORK
ANALYTICAL LABORATORIES, INC.

Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ20723 - EPA 3550B											
Matrix Spike (BJ20723-MS1)	*Source sample: 12J0486-02 (Langan #049)							Prepared: 10/16/2012 Analyzed: 10/17/2012			
4,4'-DDD	26.9	1.87	ug/kg dry	37.9	ND	71.1	30-150				
4,4'-DDE	22.8	1.87	"	37.9	ND	60.1	30-150				
4,4'-DDT	26.3	1.87	"	37.9	ND	69.5	30-150				
Aldrin	25.6	1.87	"	37.9	ND	67.6	30-150				
alpha-BHC	25.8	1.87	"	37.9	ND	68.1	30-150				
beta-BHC	25.0	1.87	"	37.9	ND	65.9	30-150				
gamma-Chlordane	21.3	1.87	"	37.9	ND	56.2	30-150				
delta-BHC	24.3	1.87	"	37.9	ND	64.2	30-150				
Dieldrin	24.4	1.87	"	37.9	ND	64.5	30-150				
Endosulfan I	23.8	1.87	"	37.9	ND	62.9	30-150				
Endosulfan II	29.4	1.87	"	37.9	ND	77.7	30-150				
Endosulfan sulfate	21.5	1.87	"	37.9	ND	56.7	30-150				
Endrin	26.1	1.87	"	37.9	ND	68.8	30-150				
Endrin aldehyde	24.8	1.87	"	37.9	ND	65.5	30-150				
Endrin ketone	26.0	1.87	"	37.9	ND	68.6	30-150				
gamma-BHC (Lindane)	27.6	1.87	"	37.9	ND	72.9	30-150				
Heptachlor	28.3	1.87	"	37.9	ND	74.7	30-150				
Heptachlor epoxide	26.8	1.87	"	37.9	ND	70.8	30-150				
Methoxychlor	28.0	9.37	"	37.9	ND	73.9	30-150				
alpha-Chlordane	23.7	1.87	"	37.9	ND	62.5	30-150				
Surrogate: Decachlorobiphenyl	*46.0*		*"*	*76.1*		*60.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*48.2*		*"*	*76.1*		*63.4*	*30-150*				
Matrix Spike Dup (BJ20723-MSD1)	*Source sample: 12J0486-02 (Langan #049)							Prepared: 10/16/2012 Analyzed: 10/17/2012			
4,4'-DDD	30.1	1.87	ug/kg dry	37.9	ND	79.5	30-150		11.1	30	
4,4'-DDE	26.1	1.87	"	37.9	ND	68.8	30-150		13.6	30	
4,4'-DDT	27.8	1.87	"	37.9	ND	73.4	30-150		5.42	30	
Aldrin	29.6	1.87	"	37.9	ND	78.2	30-150		14.5	30	
alpha-BHC	31.0	1.87	"	37.9	ND	81.8	30-150		18.3	30	
beta-BHC	26.0	1.87	"	37.9	ND	68.7	30-150		4.24	30	
gamma-Chlordane	24.7	1.87	"	37.9	ND	65.2	30-150		14.8	30	
delta-BHC	28.0	1.87	"	37.9	ND	73.9	30-150		14.0	30	
Dieldrin	26.8	1.87	"	37.9	ND	70.7	30-150		9.09	30	
Endosulfan I	26.4	1.87	"	37.9	ND	69.8	30-150		10.3	30	
Endosulfan II	29.2	1.87	"	37.9	ND	77.2	30-150		0.672	30	
Endosulfan sulfate	25.8	1.87	"	37.9	ND	68.2	30-150		18.4	30	
Endrin	29.2	1.87	"	37.9	ND	77.1	30-150		11.4	30	
Endrin aldehyde	28.6	1.87	"	37.9	ND	75.4	30-150		14.1	30	
Endrin ketone	25.7	1.87	"	37.9	ND	67.8	30-150		1.09	30	
gamma-BHC (Lindane)	30.9	1.87	"	37.9	ND	81.5	30-150		11.1	30	
Heptachlor	32.5	1.87	"	37.9	ND	85.8	30-150		13.8	30	
Heptachlor epoxide	30.6	1.87	"	37.9	ND	80.7	30-150		13.0	30	
Methoxychlor	28.7	9.37	"	37.9	ND	75.9	30-150		2.66	30	
alpha-Chlordane	25.8	1.87	"	37.9	ND	68.2	30-150		8.61	30	
Surrogate: Decachlorobiphenyl	*55.2*		*"*	*76.1*		*72.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*68.7*		*"*	*76.1*		*90.2*	*30-150*				

YORK
ANALYTICAL LABORATORIES, INC.

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ20719 - EPA 3050B											
Blank (BJ20719-BLK1)								Prepared: 10/15/2012 Analyzed: 10/16/2012			
Aluminum	ND	2.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Calcium	5.76	2.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	2.68	1.00	"								
Lead	ND	0.300	"								
Magnesium	ND	2.00	"								
Manganese	ND	1.00	"								
Nickel	ND	0.500	"								
Potassium	ND	10.0	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Reference (BJ20719-SRM1)								Prepared: 10/15/2012 Analyzed: 10/16/2012			
Aluminum	6340	2.00	mg/kg wet	9310		68.1	43.3-157				
Antimony	96.7	0.500	"	120		80.6	20.8-253				
Arsenic	160	1.00	"	168		95.1	70.8-130				
Barium	193	0.500	"	213		90.5	73.2-127				
Beryllium	103	0.100	"	110		93.4	75.1-125				
Cadmium	92.6	0.500	"	103		89.9	73-126				
Calcium	6310	2.00	"	6870		91.9	74.4-126				
Chromium	105	0.500	"	119		88.3	69.7-129				
Cobalt	126	0.500	"	131		96.2	74.4-125				
Copper	112	0.500	"	118		94.9	74.6-125				
Iron	11000	1.00	"	13000		84.9	32.2-168				
Lead	71.1	0.300	"	76.9		92.5	68.7-131				
Magnesium	2350	2.00	"	2780		84.6	61.5-135				
Manganese	320	1.00	"	338		94.7	75.4-125				
Nickel	74.9	0.500	"	70.0		107	70.9-129				
Potassium	2580	10.0	"	3130		82.4	62.9-137				
Selenium	123	0.500	"	126		97.5	66.7-134				
Silver	39.4	0.500	"	42.3		93.1	66.2-134				
Sodium	333	10.0	"	350		95.2	42.9-157				
Thallium	200	0.500	"	208		96.2	69.2-121				
Vanadium	77.2	0.500	"	87.1		88.7	63.1-137				
Zinc	248	0.500	"	276		89.8	71.3-129				

YORK
ANALYTICAL LABORATORIES, INC.

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ20736 - EPA SW846-7471											
Blank (BJ20736-BLK1)								Prepared: 10/16/2012 Analyzed: 10/17/2012			
Mercury	ND	0.100	mg/kg wet								
LCS (BJ20736-BS1)								Prepared: 10/16/2012 Analyzed: 10/17/2012			
Mercury	2.81		mg/kg	2.96		94.9	75-125				

Notes and Definitions

B — Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND — Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL — REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL — METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR — Not reported

RPD — Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 12J0486

Samples Received: 10/12/2012 18:00 **By:** John Gale **Logged In:** 10/15/2012 8:17 **By:** Paul Grace

Sample Conditions:

- [x] Custody Seals
- [x] Containers Intact
- [x] COC/Labels Agree
- [x] Preservation Confirmed
- [x] Cooler Temperature Confirmed
- [x] COC Complete
- [x] Chain of Custody Form Received
- [x] Appropriate Sample Volumes Received
- [x] Appropriate Sample Containers Submitted
- [x] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
12J0486-01	% Solids Prep	10/17/2012 9:50	10/17/2012 9:50	Joseph C. Costantini
12J0486-02	% Solids Prep	10/17/2012 9:50	10/17/2012 9:50	Joseph C. Costantini
12J0486-01	EPA 3050B	10/15/2012 16:24	10/15/2012 16:24	Mike Woodfield
12J0486-02	EPA 3050B	10/15/2012 16:24	10/15/2012 16:24	Mike Woodfield
12J0486-01	EPA 3550B	10/16/2012 13:45	10/16/2012 13:45	Christy Cairo
12J0486-02	EPA 3550B	10/16/2012 13:45	10/16/2012 13:45	Christy Cairo
12J0486-01	EPA SW846-7471	10/16/2012 9:04	10/16/2012 9:04	Ali Akbar
12J0486-02	EPA SW846-7471	10/16/2012 9:04	10/16/2012 9:04	Ali Akbar

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
12J0486-01	Mercury by 7470/7471	10/16/2012 9:04	10/17/2012 14:06	Ali Akbar
12J0486-02	Mercury by 7470/7471	10/16/2012 9:04	10/17/2012 14:06	Ali Akbar
12J0486-01	Metals, Target Analyte	10/15/2012 16:24	10/16/2012 2:55	Mike Woodfield
12J0486-02	Metals, Target Analyte	10/15/2012 16:24	10/16/2012 3:00	Mike Woodfield
12J0486-01	Pesticides, 8081 target list	10/16/2012 13:45	10/17/2012 11:09	Johanna Woodfield
12J0486-02	Pesticides, 8081 target list	10/16/2012 13:45	10/17/2012 11:24	Johanna Woodfield
12J0486-01	Total Solids	10/17/2012 9:50	10/17/2012 9:50	Anthony DeCarlo
12J0486-02	Total Solids	10/17/2012 9:50	10/17/2012 9:50	Anthony DeCarlo

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 12J0486

YOUR Information

Company: LANGAN
Address: RIVER DRIVE CENTER 1
ELMWOOD PARK, NJ
Phone No. (201) 498 4899 EXT 4276
Contact Person: AMANDA FORSBURG
E-Mail Address: AFORSBURG@LANGAN.COM

Report To:

Company: LANGAN
Address: "SAME"
Phone No. "SAME"
Attention: —
E-Mail Address: "SAME"

Invoice To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

100242701

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other ASP-Cat B
- **York Regulatory Comparison**
- **Excel Spreadsheet**

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): Lindsay Deckard

Name (printed): LINDSAY DECKARD

Matrix Codes

- S - soil
- Other - specify(oil, etc.)
- WW - wastewater
- GW - groundwater
- DW - drinking water
- Air-A - ambient air
- Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
LANGAN #048	12OCT12	S	8081 Pest, TAL	glass jar, orange paint
LANGAN #049	12OCT12	S	8081 Pest, TAL	glass jar

Comments: EDD only please.

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By: Lindsay Deckard — Date/Time: 12OCT12/1245
Samples Relinquished By: ___ — Date/Time: ___
Samples Received By: [signature] — Date/Time: 10/12/12 12:45
Samples Received in LAB by: [signature] — Date/Time: 10/12/12 - 1800

Temperature on Receipt 4.3 °C

York Analytical Laboratories, Inc.

SDG: 12J0486

CLASS: PEST

METHOD: EPA SW 846-8081

DATA PACKAGE COVER PAGE

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701

Client Sample Id:	Lab Sample Id:
Langan #048	12J0486-01
Langan #049	12J0486-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Robert Q. Bradley

Name: Robert Q. Bradley

Date: 10/19/2012

Title: Executive Vice President & Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Sequence:		Instrument:	
Matrix:	Soil	Calibration:	

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (BJ20723-BLK1)			Lab File ID: PST__005.D		Analyzed: 10/17/12 10:38			
Decachlorobiphenyl	67.0	117	30 - 150	6.4				
Tetrachloro-m-xylene	67.0	98.4	30 - 150	2.39				
LCS (BJ20723-BS1)			Lab File ID: PST__006.D		Analyzed: 10/17/12 10:53			
Decachlorobiphenyl	67.0	67.9	30 - 150	6.38				
Tetrachloro-m-xylene	67.0	66.1	30 - 150	2.38				
Langan #048 (12J0486-01)			Lab File ID: PST__007.D		Analyzed: 10/17/12 11:09			
Decachlorobiphenyl	74.0	76.6	30 - 150	6.38				
Tetrachloro-m-xylene	74.0	72.2	30 - 150	2.38				
Langan #049 (12J0486-02)			Lab File ID: PST__008.D		Analyzed: 10/17/12 11:24			
Decachlorobiphenyl	76.1	73.1	30 - 150	6.38				
Tetrachloro-m-xylene	76.1	84.3	30 - 150	2.39				
Matrix Spike (BJ20723-MS1)			Lab File ID: PST__009.D		Analyzed: 10/17/12 11:39			
Decachlorobiphenyl	76.1	60.4	30 - 150	6.38				
Tetrachloro-m-xylene	76.1	63.4	30 - 150	2.39				
Matrix Spike Dup (BJ20723-MSD1)			Lab File ID: PST__010.D		Analyzed: 10/17/12 11:54			
Decachlorobiphenyl	76.1	72.5	30 - 150	6.38				
Tetrachloro-m-xylene	76.1	90.2	30 - 150	2.39				

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-BS1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
4,4'-DDD	33.3	34.6	104	40 - 140
4,4'-DDE	33.3	31.2	93.7	40 - 140
4,4'-DDT	33.3	34.8	104	40 - 140
Aldrin	33.3	29.6	88.9	40 - 140
alpha-BHC	33.3	28.8	86.4	40 - 140
beta-BHC	33.3	32.2	96.5	40 - 140
gamma-Chlordane	33.3	31.2	93.6	40 - 140
delta-BHC	33.3	31.0	93.1	40 - 140
Dieldrin	33.3	32.8	98.5	40 - 140
Endosulfan I	33.3	31.5	94.6	40 - 140
Endosulfan II	33.3	37.9	114	40 - 140
Endosulfan sulfate	33.3	33.7	101	40 - 140
Endrin	33.3	30.1	90.3	40 - 140
Endrin aldehyde	33.3	28.6	85.9	40 - 140
Endrin ketone	33.3	32.1	96.4	40 - 140
gamma-BHC (Lindane)	33.3	29.3	88.0	40 - 140
Heptachlor	33.3	29.7	89.0	40 - 140
Heptachlor epoxide	33.3	30.5	91.5	40 - 140
Methoxychlor	33.3	33.5	101	40 - 140
alpha-Chlordane	33.3	32.6	97.8	40 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Langan #049

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-MS1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

Source Sample Name: Langan #049

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
4,4'-DDD	37.9	ND	26.9	71.1	30 - 150
4,4'-DDE	37.9	ND	22.8	60.1	30 - 150
4,4'-DDT	37.9	ND	26.3	69.5	30 - 150
Aldrin	37.9	ND	25.6	67.6	30 - 150
alpha-BHC	37.9	ND	25.8	68.1	30 - 150
beta-BHC	37.9	ND	25.0	65.9	30 - 150
gamma-Chlordane	37.9	ND	21.3	56.2	30 - 150
delta-BHC	37.9	ND	24.3	64.2	30 - 150
Dieldrin	37.9	ND	24.4	64.5	30 - 150
Endosulfan I	37.9	ND	23.8	62.9	30 - 150
Endosulfan II	37.9	ND	29.4	77.7	30 - 150
Endosulfan sulfate	37.9	ND	21.5	56.7	30 - 150
Endrin	37.9	ND	26.1	68.8	30 - 150
Endrin aldehyde	37.9	ND	24.8	65.5	30 - 150
Endrin ketone	37.9	ND	26.0	68.6	30 - 150
gamma-BHC (Lindane)	37.9	ND	27.6	72.9	30 - 150
Heptachlor	37.9	ND	28.3	74.7	30 - 150
Heptachlor epoxide	37.9	ND	26.8	70.8	30 - 150
Methoxychlor	37.9	ND	28.0	73.9	30 - 150
alpha-Chlordane	37.9	ND	23.7	62.5	30 - 150

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4,4'-DDD	37.9	30.1	79.5	11.1	30	30 - 150
4,4'-DDE	37.9	26.1	68.8	13.6	30	30 - 150
4,4'-DDT	37.9	27.8	73.4	5.42	30	30 - 150
Aldrin	37.9	29.6	78.2	14.5	30	30 - 150
alpha-BHC	37.9	31.0	81.8	18.3	30	30 - 150
beta-BHC	37.9	26.0	68.7	4.24	30	30 - 150
gamma-Chlordane	37.9	24.7	65.2	14.8	30	30 - 150
delta-BHC	37.9	28.0	73.9	14.0	30	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA SW 846-8081

Langan #049

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-MSD1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

Source Sample Name: Langan #049

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dieldrin	37.9	26.8	70.7	9.09	30	30 - 150
Endosulfan I	37.9	26.4	69.8	10.3	30	30 - 150
Endosulfan II	37.9	29.2	77.2	0.672	30	30 - 150
Endosulfan sulfate	37.9	25.8	68.2	18.4	30	30 - 150
Endrin	37.9	29.2	77.1	11.4	30	30 - 150
Endrin aldehyde	37.9	28.6	75.4	14.1	30	30 - 150
Endrin ketone	37.9	25.7	67.8	1.09	30	30 - 150
gamma-BHC (Lindane)	37.9	30.9	81.5	11.1	30	30 - 150
Heptachlor	37.9	32.5	85.8	13.8	30	30 - 150
Heptachlor epoxide	37.9	30.6	80.7	13.0	30	30 - 150
Methoxychlor	37.9	28.7	75.9	2.66	30	30 - 150
alpha-Chlordane	37.9	25.8	68.2	8.61	30	30 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV

PREPARATION BATCH SUMMARY

EPA SW 846-8081

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Batch: BJ20723 Batch Matrix: Soil Preparation: EPA 3550B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Langan #048	12J0486-01	PST__007.D	10/16/12 13:45	
Langan #049	12J0486-02	PST__008.D	10/16/12 13:45	
Blank	BJ20723-BLK1	PST__005.D	10/16/12 13:45	
LCS	BJ20723-BS1	PST__006.D	10/16/12 13:45	
Langan #049	BJ20723-MS1	PST__009.D	10/16/12 07:28	
Langan #049	BJ20723-MSD1	PST__010.D	10/16/12 07:28	

METHOD DETECTION AND REPORTING LIMITS

EPA SW 846-8081

Laboratory: York Analytical Laboratories, Inc. **SDG:** 12J0486

Client: Langan Engineering & Environmental Services (NJ) **Project:** 100242701

Matrix: Soil **Instrument:**

Analyte	MDL	MRL	Units
4,4'-DDD	0.330	0.330	ug/kg
4,4'-DDE	0.330	0.330	ug/kg
4,4'-DDT	0.330	0.330	ug/kg
Aldrin	0.330	0.330	ug/kg
alpha-BHC	0.330	0.330	ug/kg
beta-BHC	0.330	0.330	ug/kg
gamma-Chlordane	0.330	0.330	ug/kg
delta-BHC	0.330	0.330	ug/kg
Dieldrin	0.330	0.330	ug/kg
Endosulfan I	0.330	0.330	ug/kg
Endosulfan II	0.330	0.330	ug/kg
Endosulfan sulfate	0.330	0.330	ug/kg
Endrin	0.330	0.330	ug/kg
Endrin aldehyde	0.330	0.330	ug/kg
Endrin ketone	0.330	0.330	ug/kg
gamma-BHC (Lindane)	0.330	0.330	ug/kg
Heptachlor	0.330	0.330	ug/kg
Heptachlor epoxide	0.330	0.330	ug/kg
Methoxychlor	1.65	1.65	ug/kg
alpha-Chlordane	0.330	0.330	ug/kg
Toxaphene	16.7	16.7	ug/kg

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA SW 846-8081

Langan #048

Laboratory:	York Analytical Laboratories, Inc.		SDG:	12J0486	
Client:	Langan Engineering & Environmental Services (NJ)		Project:	100242701	
Matrix:	Soil	Laboratory ID:	12J0486-01	File ID:	PST_007.D
Sampled:	10/12/12 15:00	Prepared:	10/16/12 13:45	Analyzed:	10/17/12 11:09
Solids:	90.49	Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL
Batch:	BJ20723	Sequence:		Calibration:	Instrument: GC ECD #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.82	U
72-55-9	4,4'-DDE	5	1.82	U
50-29-3	4,4'-DDT	5	1.82	U
309-00-2	Aldrin	5	1.82	U
319-84-6	alpha-BHC	5	1.82	U
319-85-7	beta-BHC	5	1.82	U
5103-74-2	gamma-Chlordane	5	1.82	U
319-86-8	delta-BHC	5	1.82	U
60-57-1	Dieldrin	5	1.82	U
959-98-8	Endosulfan I	5	1.82	U
33213-65-9	Endosulfan II	5	1.82	U
1031-07-8	Endosulfan sulfate	5	1.82	U
72-20-8	Endrin	5	1.82	U
7421-93-4	Endrin aldehyde	5	1.82	U
53494-70-5	Endrin ketone	5	1.82	U
58-89-9	gamma-BHC (Lindane)	5	1.82	U
76-44-8	Heptachlor	5	1.82	U
1024-57-3	Heptachlor epoxide	5	1.82	U
72-43-5	Methoxychlor	5	9.12	U
5103-71-9	alpha-Chlordane	5	1.82	U
8001-35-2	Toxaphene	5	92.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.0	56.7	76.6	30 - 150	
Tetrachloro-m-xylene	74.0	53.4	72.2	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__007.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__007.D\ECD2B.CH
Acq On : 17 Oct 2012 11:09 am Operator: JW
Sample : 12J0486-01 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:29 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.38	2.67	1350964	538515	29.005m	29.171
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	14.50%#	14.59%#
22) SA	Decachlorobiphen	6.38	7.07	1125598	402202	30.797m	29.553m
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	15.40%#	14.78%#
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D. d	N.D. d
4) M	beta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
5) M	delta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
6) M	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
7) M	Aldrin	0.00	0.00	0	0	N.D. d	N.D. d
8) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) M	gamma-Chlordane	0.00	0.00	0	0	N.D. d	N.D. d
10) M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M	Endosulfan I	0.00	0.00	0	0	N.D. d	N.D. d
12) M	4,4'-DDE	0.00	0.00	0	0	N.D. d	N.D. d
13) M	Dieldrin	0.00	0.00	0	0	N.D. d	N.D. d
14) M	Endrin	0.00	0.00	0	0	N.D. d	N.D. d
15) M	4,4'-DDD	0.00	0.00	0	0	N.D. d	N.D. d
16) M	Endosulfan II	0.00	0.00	0	0	N.D. d	N.D. d
17) M	4,4'-DDT	0.00	0.00	0	0	N.D. d	N.D. d
18) M	Endrin Aldehyde	0.00	0.00	0	0	N.D. d	N.D. d
19) M	Methoxychlor	0.00	0.00	0	0	N.D. d	N.D. d
20) M	Endosulfan sulfa	0.00	0.00	0	0	N.D. d	N.D. d
21) M	Endrin Ketone	0.00	0.00	0	0	N.D. d	N.D. d

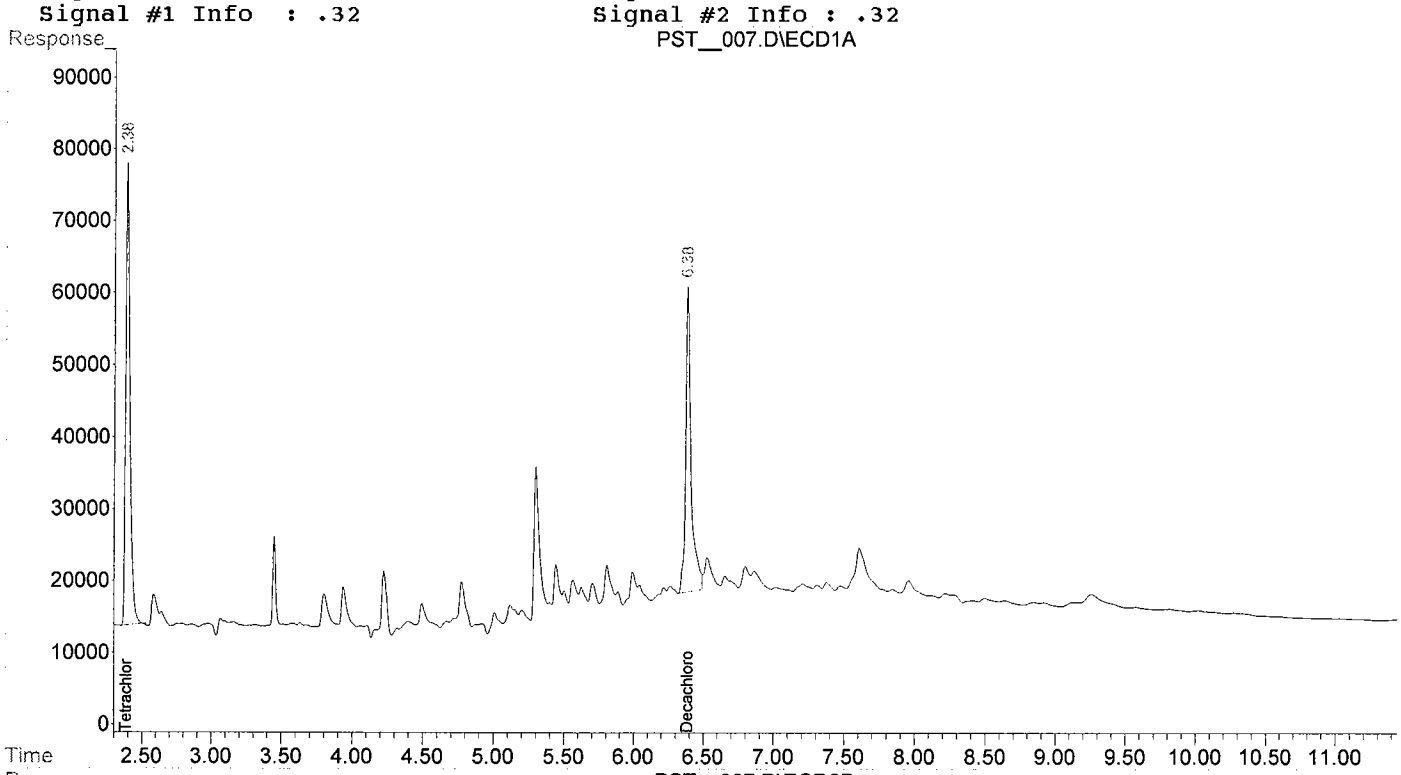
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

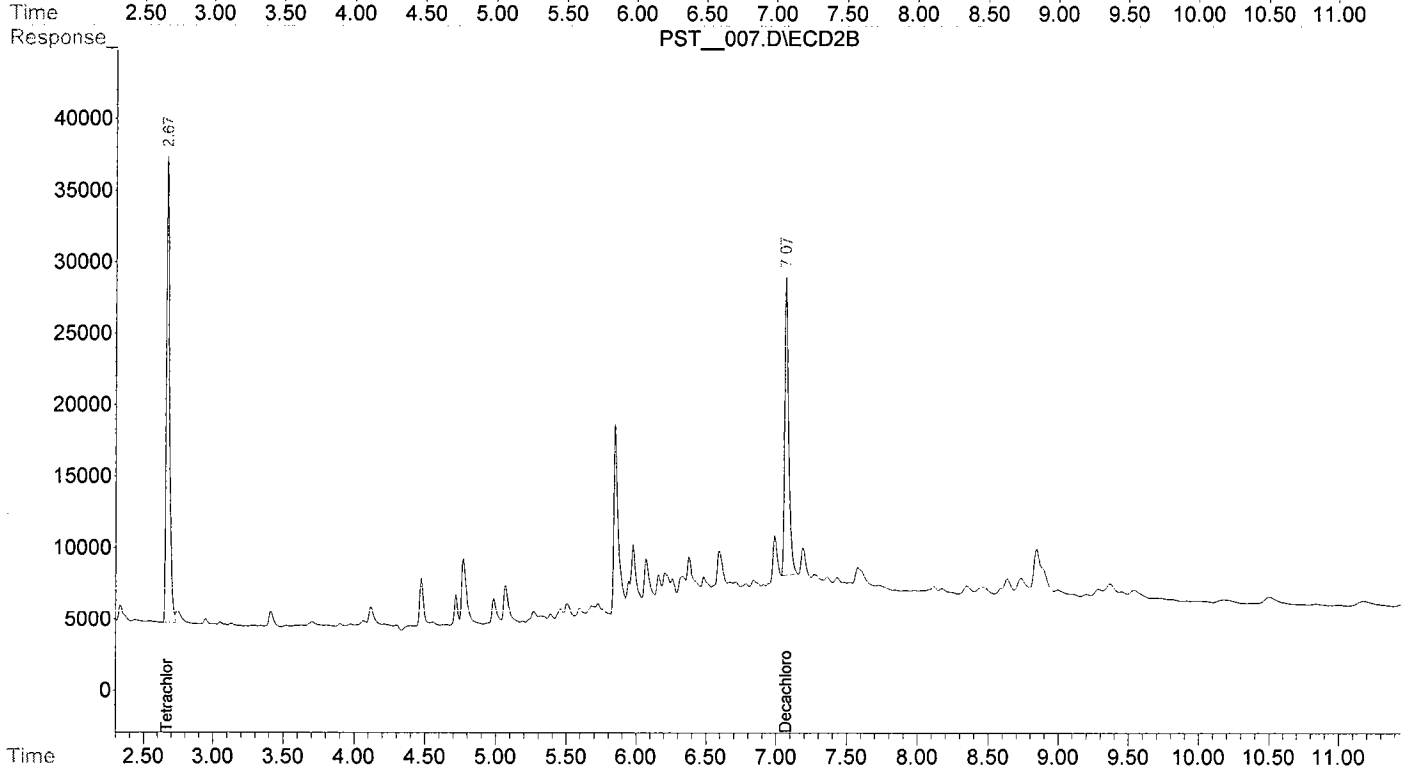
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__007.D\ECD1A.CH  Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__007.D\ECD2B.CH
Acq On    : 17 Oct 2012  11:09 am                        Operator: JW
Sample    : 12J0486-01                                   Inst     : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 5.00
IntFile Signal #1: EVENTS.E      IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:29 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA SW 846-8081

Langan #049

Laboratory:	York Analytical Laboratories, Inc.		SDG:	12J0486	
Client:	Langan Engineering & Environmental Services (NJ)		Project:	100242701	
Matrix:	Soil	Laboratory ID:	12J0486-02	File ID:	PST_008.D
Sampled:	10/12/12 15:00	Prepared:	10/16/12 13:45	Analyzed:	10/17/12 11:24
Solids:	88.01	Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL
Batch:	BJ20723	Sequence:		Calibration:	Instrument: GC ECD #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.87	U
72-55-9	4,4'-DDE	5	1.87	U
50-29-3	4,4'-DDT	5	1.87	U
309-00-2	Aldrin	5	1.87	U
319-84-6	alpha-BHC	5	1.87	U
319-85-7	beta-BHC	5	1.87	U
5103-74-2	gamma-Chlordane	5	1.87	U
319-86-8	delta-BHC	5	1.87	U
60-57-1	Dieldrin	5	1.87	U
959-98-8	Endosulfan I	5	1.87	U
33213-65-9	Endosulfan II	5	1.87	U
1031-07-8	Endosulfan sulfate	5	1.87	U
72-20-8	Endrin	5	1.87	U
7421-93-4	Endrin aldehyde	5	1.87	U
53494-70-5	Endrin ketone	5	1.87	U
58-89-9	gamma-BHC (Lindane)	5	1.87	U
76-44-8	Heptachlor	5	1.87	U
1024-57-3	Heptachlor epoxide	5	1.87	U
72-43-5	Methoxychlor	5	9.37	U
5103-71-9	alpha-Chlordane	5	1.87	U
8001-35-2	Toxaphene	5	94.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	76.1	55.7	73.1	30 - 150	
Tetrachloro-m-xylene	76.1	64.2	84.3	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__008.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__008.D\ECD2B.CH
Acq On : 17 Oct 2012 11:24 am Operator: JW
Sample : 12J0486-02 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:30 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.39	2.67	1577905	678075	33.877	36.731
Spiked Amount	200.000	Range	30 - 150	Recovery	=	16.94%#	18.37%#
22) SA	Decachlorobiphen	6.38	7.07	1074584	441108	29.401m	32.412m
Spiked Amount	200.000	Range	30 - 150	Recovery	=	14.70%#	16.21%#
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D. d	N.D. d
4) M	beta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
5) M	delta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
6) M	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
7) M	Aldrin	0.00	0.00	0	0	N.D. d	N.D. d
8) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) M	gamma-Chlordane	0.00	0.00	0	0	N.D. d	N.D. d
10) M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M	Endosulfan I	0.00	0.00	0	0	N.D. d	N.D. d
12) M	4,4'-DDE	0.00	0.00	0	0	N.D. d	N.D. d
13) M	Dieldrin	0.00	0.00	0	0	N.D. d	N.D. d
14) M	Endrin	0.00	0.00	0	0	N.D. d	N.D. d
15) M	4,4'-DDD	0.00	0.00	0	0	N.D. d	N.D. d
16) M	Endosulfan II	0.00	0.00	0	0	N.D. d	N.D. d
17) M	4,4'-DDT	0.00	0.00	0	0	N.D. d	N.D. d
18) M	Endrin Aldehyde	0.00	0.00	0	0	N.D. d	N.D. d
19) M	Methoxychlor	0.00	0.00	0	0	N.D. d	N.D. d
20) M	Endosulfan sulfa	0.00	0.00	0	0	N.D. d	N.D. d
21) M	Endrin Ketone	0.00	0.00	0	0	N.D. d	N.D. d

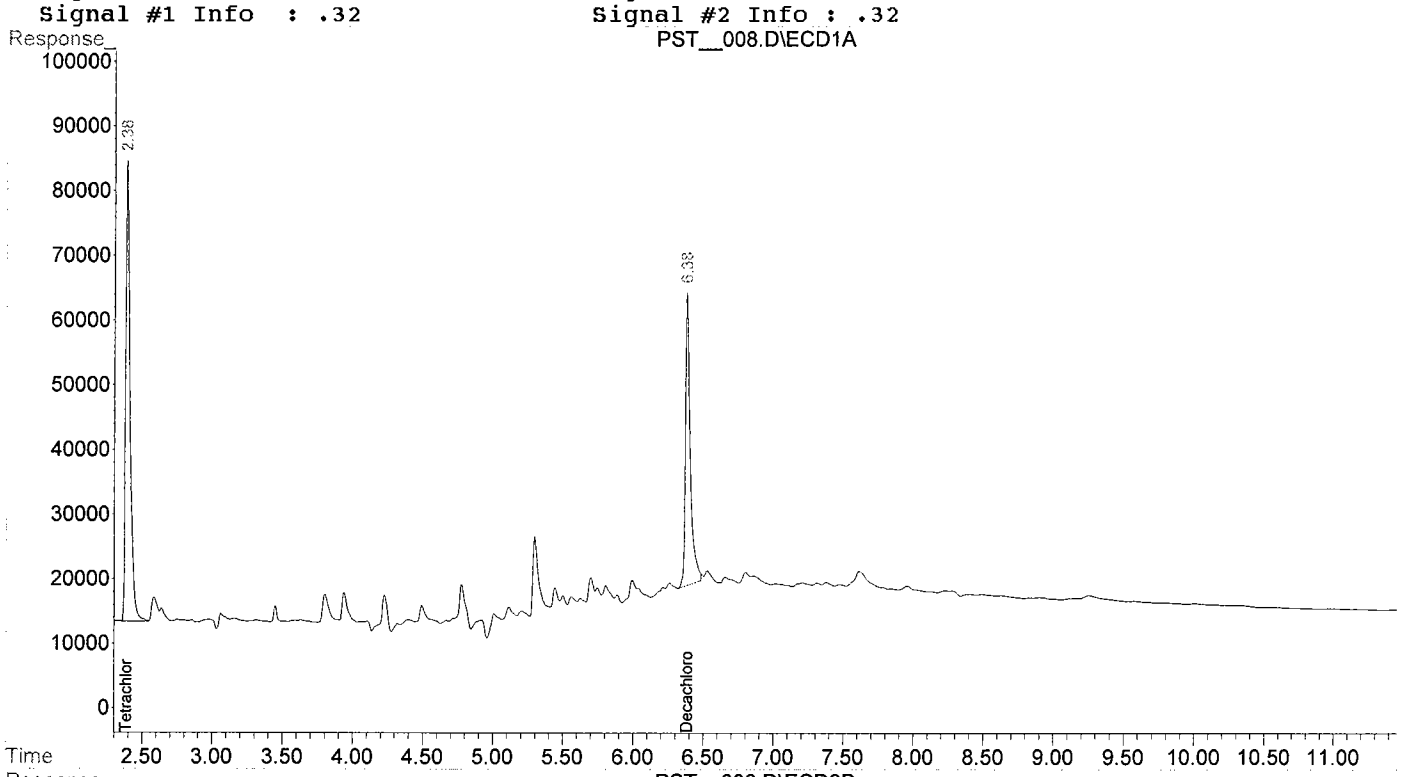
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

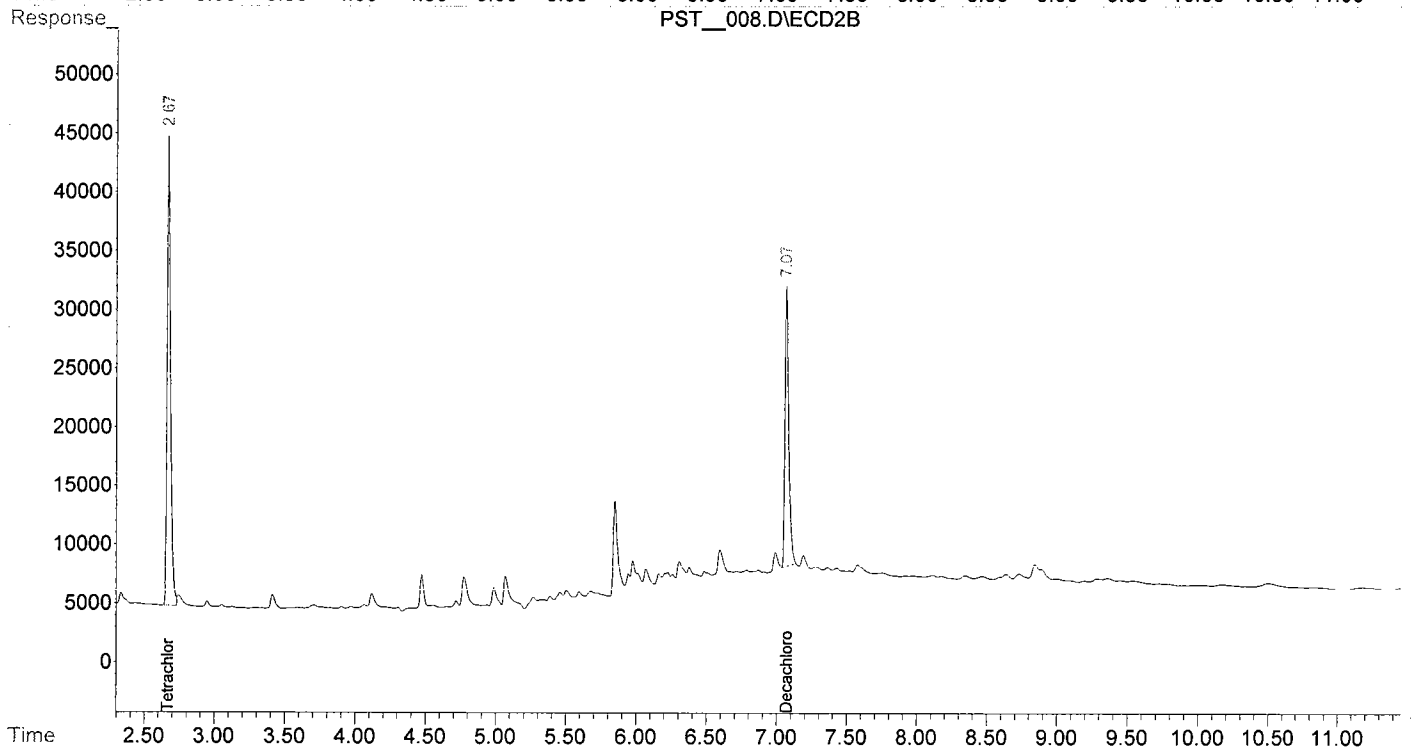
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__008.D\ECD1A.CH  Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__008.D\ECD2B.CH
Acq On    : 17 Oct 2012  11:24 am                    Operator: JW
Sample    : 12J0486-02                               Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121      Multiplr: 5.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:30 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Response Factor Report GC ECD #3

Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012

Calibration Files
200 =PST__012.D 100 =PST__013.D 50 =PST__014.D
20 =PST__015.D 5 =PST__016.D 1 =PST__026.D

		Compound	200	100	50	20	5	1	Avg		%RSD
)	S	Tetrachloro-m-xylen	3.967	4.497	4.453	4.605	4.957	5.468	4.658	E4	10.92
)	M	alpha-BHC	5.657	6.232	7.109	6.851	6.729	7.607	6.697	E4	10.17
)	M	gamma-BHC (Lindane)	4.703	5.418	6.360	6.273	6.467	6.881	6.017	E4	13.33
)	M	beta-BHC	2.677	3.110	3.561	3.314	3.181	3.698	3.257	E4	11.10
)	M	delta-BHC	4.591	5.306	6.002	5.437	5.224	5.823	5.397	E4	9.21
)	M	Heptachlor	4.140	4.748	5.606	5.532	5.899	6.469	5.399	E4	15.42
)	M	Aldrin	4.269	4.877	5.699	5.393	5.286	6.495	5.336	E4	14.10
)	M	Heptachlor Epoxide	3.891	4.488	5.268	5.152	5.041	6.658	5.083	E4	18.24
)	M	gamma-Chlordane	4.150	4.849	5.645	5.464	5.395	7.215	5.453	E4	18.72
)	M	alpha-Chlordane	3.761	4.438	5.212	5.195	4.924	5.316	4.808	E4	12.55
)	M	Endosulfan I	4.897	5.414	6.084	6.165	5.677	7.431	5.945	E4	14.52
)	M	4,4'-DDE	2.852	3.462	4.095	4.066	3.731	4.897	3.851	E4	17.85
)	M	Dieldrin	3.993	4.432	5.111	4.864	4.263	5.617	4.713	E4	12.72
)	M	Endrin	3.123	3.675	4.386	4.422	4.079	5.443	4.188	E4	18.74
)	M	4,4'-DDD	3.122	3.521	4.025	3.788	3.226	3.598	3.547	E4	9.55
)	M	Endosulfan II	2.797	3.138	3.606	4.620	4.189	4.339	3.781	E4	19.05
)	M	4,4'-DDT	3.369	3.521	3.899	3.838	3.301	4.111	3.673	E4	8.82
)	M	Endrin Aldehyde	2.815	3.241	3.675	3.136	2.526	2.658	3.009	E4	14.16
)	M	Methoxychlor	1.474	1.555	1.889	2.243	1.514		1.735	E4	18.93
)	M	Endosulfan sulfate	3.258	3.384	3.938	3.922	3.088	4.346	3.656	E4	13.30
)	M	Endrin Ketone	3.757	4.069	4.858	4.734	3.657	6.049	4.521	E4	19.86
)	SA	Decachlorobiphenyl	3.243	3.683	3.783	3.374	3.378	4.469	3.655	E4	12.26

ignal #2 Calibration Files
200 =PST__012.D 100 =PST__013.D 50 =PST__014.D
20 =PST__015.D 5 =PST__016.D 1 =PST__026.D

		Compound	200	100	50	20	5	1	Avg		%RSD
)	SA	Tetrachloro-m-xylen	1.561	1.750	1.750	1.789	1.923	2.303	1.846	E4	13.66
)	M	alpha-BHC	2.141	2.391	2.749	2.616	2.159	2.702	2.460	E4	10.97
)	M	gamma-BHC (Lindane)	1.906	2.172	2.532	2.446	2.081	2.422	2.260	E4	10.84
)	M	beta-BHC	1.007	1.154	1.354	1.283	1.229	1.452	1.247	E4	12.50
)	M	delta-BHC	1.629	1.924	2.189	1.977	1.587	1.928	1.872	E4	12.13
)	M	Heptachlor	1.609	1.809	2.136	2.084	2.020	2.052	1.952	E4	10.35
)	M	Aldrin	1.766	1.971	2.281	2.113	2.106	2.375	2.102	E4	10.35
)	M	Heptachlor Epoxide	1.589	1.785	2.092	2.013	1.887	2.719	2.014	E4	19.27
)	M	gamma-Chlordane	1.651	1.880	2.195	2.107	1.985	2.815	2.105	E4	18.81
)	M	alpha-Chlordane	1.429	1.659	1.980	1.943	1.863	2.475	1.891	E4	18.62
)	M	Endosulfan I	1.619	1.824	2.085	1.996	1.822	2.602	1.992	E4	17.05
)	M	4,4'-DDE	1.537	1.727	1.999	1.887	1.589	2.180	1.820	E4	13.65
)	M	Dieldrin	1.616	1.792	2.073	1.909	1.616	2.354	1.893	E4	15.10
)	M	Endrin	1.285	1.468	1.724	1.660	1.449	1.978	1.594	E4	15.40
)	M	4,4'-DDD	1.051	1.222	1.406	1.299	1.146	1.598	1.287	E4	15.17
)	M	Endosulfan II	1.193	1.267	1.497	1.869	1.456	1.555	1.473	E4	16.22
)	M	4,4'-DDT	1.114	1.272	1.493	1.391	1.242	1.642	1.359	E4	13.98
)	M	Endrin Aldehyde	1.190	1.341	1.554	1.140	1.035	1.565	1.304	E4	16.93
)	M	Methoxychlor	5.219	5.959	7.492	7.052	5.811		6.307	E3	14.86
)	M	Endosulfan sulfate	1.206	1.330	1.532	1.369	1.145	1.871	1.409	E4	18.71
)	M	Endrin Ketone	1.372	1.540	1.847	1.597	1.365	2.101	1.637	E4	17.59
)	SA	Decachlorobiphenyl	1.155	1.366	1.386	1.245	1.257	1.757	1.361	E4	15.56

= Out of Range

Calibration Retention Time Report GC ECD #3

Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration

First Calibration Standard : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD1A.CH
Second Calibration Standard : PST__014.D
Third Calibration Standard : PST__016.D

Compound	RT of Standard First	Second	Third	Mean RT	RT Window From	To
1 Tetrachloro-m-xylene	2.394	2.385	2.386	2.388	2.352	2.412
2 alpha-BHC	2.765	2.755	2.755	2.758	2.721	2.781
3 gamma-BHC (Lindane)	2.989	2.977	2.977	2.981	2.942	3.002
4 beta-BHC	3.051	3.039	3.041	3.044	3.005	3.065
5 delta-BHC	3.184	3.171	3.171	3.175	3.136	3.196
6 Heptachlor	3.345	3.331	3.332	3.336	3.297	3.357
7 Aldrin	3.582	3.568	3.567	3.573	3.533	3.593
8 Heptachlor Epoxide	4.079	4.063	4.063	4.068	4.027	4.087
9 gamma-Chlordane	4.181	4.165	4.165	4.170	4.130	4.190
10 alpha-Chlordane	4.287	4.272	4.271	4.277	4.236	4.296
11 Endosulfan I	4.393	4.378	4.378	4.383	4.344	4.404
12 4,4'-DDE	4.355	4.338	4.338	4.344	4.302	4.362
13 Dieldrin	4.582	4.566	4.565	4.571	4.532	4.592
14 Endrin	4.757	4.742	4.742	4.747	4.708	4.768
15 4,4'-DDD	4.817	4.801	4.801	4.806	4.767	4.827
16 Endosulfan II	4.926	4.910	4.910	4.915	4.875	4.935
17 4,4'-DDT	5.024	5.007	5.007	5.013	4.973	5.033
18 Endrin Aldehyde	5.232	5.217	5.217	5.222	5.183	5.243
19 Methoxychlor	5.380	5.361	5.360	5.367	5.326	5.386
20 Endosulfan sulfate	5.540	5.524	5.522	5.529	5.490	5.550
21 Endrin Ketone	5.732	5.716	5.714	5.721	5.681	5.741
22 Decachlorobiphenyl	6.409	6.386	6.385	6.393	6.350	6.410

Signal #2

First Calibration Standard : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD2B.CH
Second Calibration Standard : C:\HPCHEM\1\DATA\101612\PST__014.D\ECD2B.CH
Third Calibration Standard : C:\HPCHEM\1\DATA\101612\PST__016.D\ECD2B.CH

Compound	RT of Standard First	Second	Third	Mean RT	RT Window From	To
1 Tetrachloro-m-xylene	2.670	2.667	2.669	2.669	2.638	2.698
2 alpha-BHC	3.134	3.131	3.133	3.132	3.102	3.162
3 gamma-BHC (Lindane)	3.425	3.422	3.424	3.424	3.391	3.451
4 beta-BHC	3.491	3.488	3.491	3.490	3.457	3.517
5 delta-BHC	3.747	3.743	3.745	3.745	3.712	3.772
6 Heptachlor	3.807	3.804	3.806	3.806	3.773	3.833
7 Aldrin	4.095	4.091	4.093	4.093	4.060	4.120
8 Heptachlor Epoxide	4.567	4.563	4.564	4.564	4.533	4.593
9 gamma-Chlordane	4.718	4.713	4.715	4.715	4.682	4.742
0 alpha-Chlordane	4.831	4.826	4.827	4.828	4.794	4.854
1 Endosulfan I	4.877	4.873	4.874	4.875	4.841	4.901
2 4,4'-DDE	4.952	4.947	4.948	4.949	4.915	4.975
3 Dieldrin	5.085	5.080	5.081	5.082	5.049	5.109
4 Endrin	5.312	5.306	5.307	5.308	5.274	5.334
5 4,4'-DDD	5.380	5.374	5.375	5.376	5.342	5.402
6 Endosulfan II	5.464	5.458	5.459	5.460	5.426	5.486
7 4,4'-DDT	5.603	5.596	5.597	5.599	5.563	5.623
8 Endrin Aldehyde	5.699	5.693	5.694	5.695	5.662	5.722
9 Methoxychlor	6.067	6.057	6.056	6.060	6.024	6.084
0 Endosulfan sulfate	5.889	5.882	5.881	5.884	5.850	5.910
1 Endrin Ketone	6.256	6.247	6.247	6.250	6.213	6.273
2 Decachlorobiphenyl	7.090	7.072	7.073	7.079	7.036	7.096

P3-1016.M Wed Oct 17 13:59:47 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD2B.CH
Acq On : 16 Oct 2012 4:39 pm Operator: JW
Sample : PEST MIX AB #3, 200 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

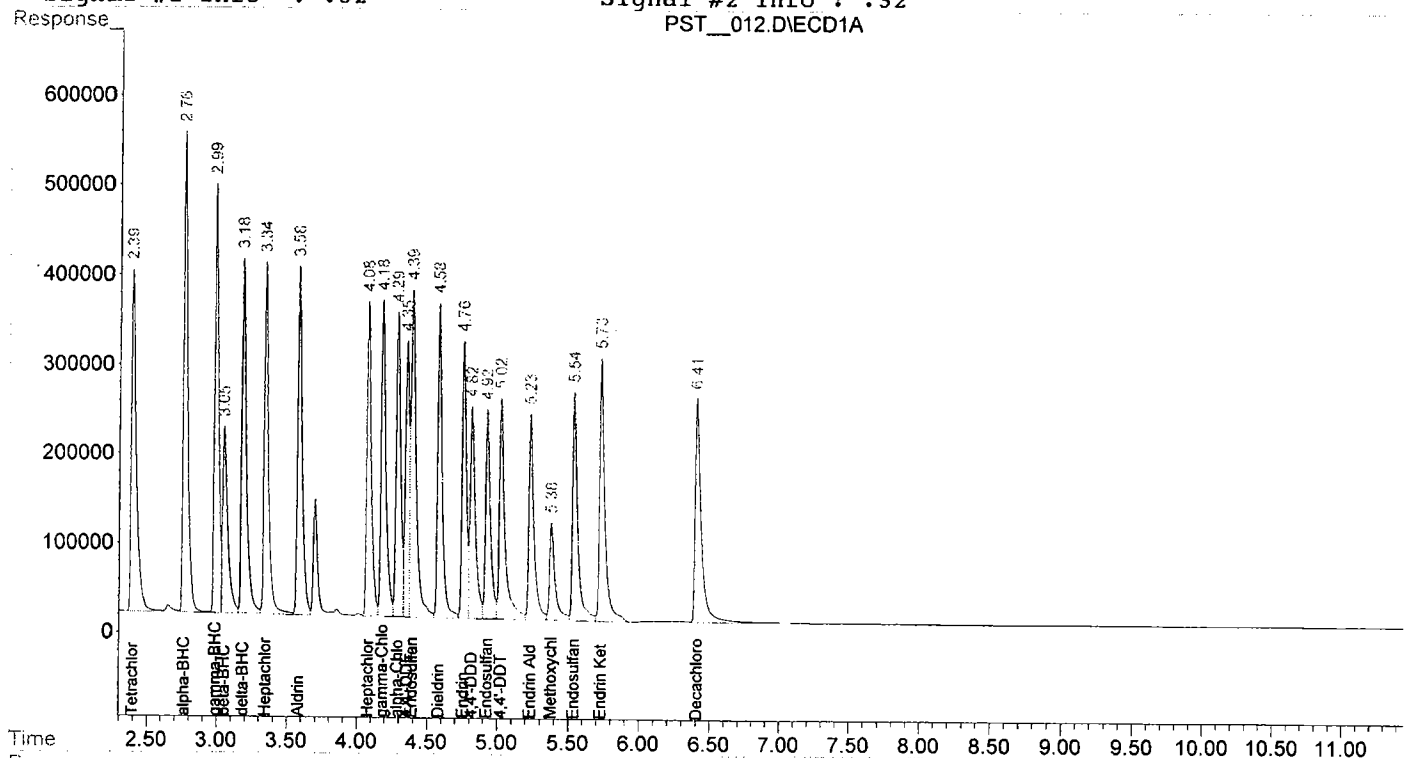
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.39	2.67	9520193	3746639	201.091	211.188
Spiked Amount	200.000	Range	30 - 150	Recovery	=	100.55%	105.59%
) SA	Decachlorobiphen	6.41	7.09	7783539	2772978	213.522	188.076
Spiked Amount	200.000	Range	30 - 150	Recovery	=	106.76%	94.04%
	Target Compounds						
) M	alpha-BHC	2.77	3.13	11313978	4282416	174.236	182.689
) M	gamma-BHC (Linda	2.99	3.43	9406101	3811899	158.096	173.482
) M	beta-BHC	3.05	3.49	5354323	2013704	154.368	169.976
) M	delta-BHC	3.18	3.75	9182080	3257715	157.404	159.125
) M	Heptachlor	3.34	3.81	8280769	3217182	143.022	166.495
) M	Aldrin	3.58	4.10	8538873	3532229	157.842	166.477
) M	Heptachlor Epoxi	4.08	4.57	7782206	3177801	148.538	163.404
) M	gamma-Chlordane	4.18	4.72	8299817	3301139	150.197	156.276
) M	alpha-Chlordane	4.29	4.83	7521008	2857209	151.939	151.431
) M	Endosulfan I	4.39	4.88	9794416	3238944	178.334	166.602
) M	4,4'-DDE	4.35	4.95	5704625	3073380	128.373	161.416 #
) M	Dieldrin	4.58	5.08	7986556	3231809	166.397	175.086
) M	Endrin	4.76	5.31	6245722	2569642	160.764	166.208
) M	4,4'-DDD	4.82	5.38	6243534	2102473	171.412	161.021
M	Endosulfan II	4.93	5.46	5594154	2385398	135.701	139.504
M	4,4'-DDT	5.02	5.60	6737007	2227339	198.454	157.064
M	Endrin Aldehyde	5.23	5.70	5630795	2379266	181.217	187.553
M	Methoxychlor	5.38	6.07	2947026	1043712	176.758	178.082
M	Endosulfan sulfa	5.54	5.89	6516846	2411512	185.271	168.763
M	Endrin Ketone	5.73	6.26	7513055	2744891	198.583	171.733

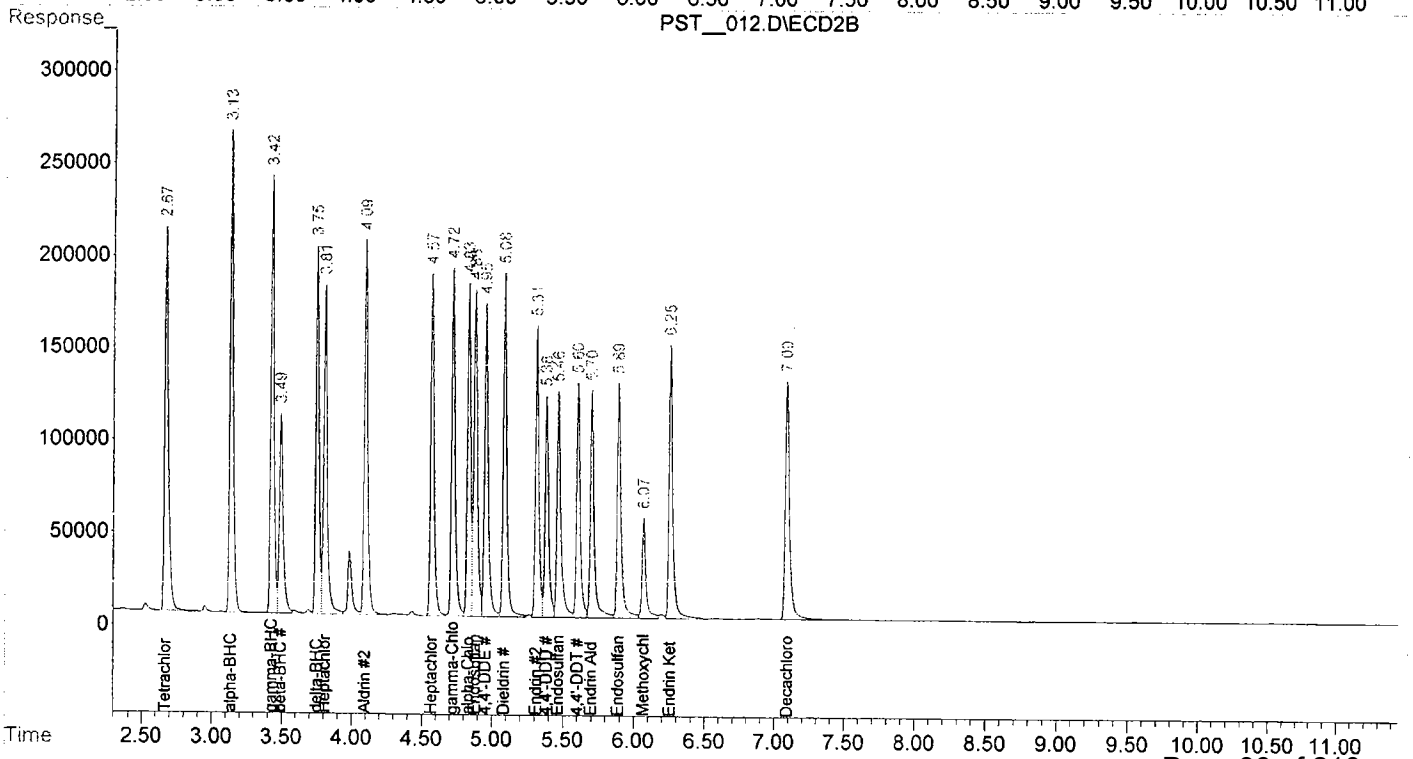
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__012.D\ECD2B.CH
Acq On : 16 Oct 2012 4:39 pm Operator: JW
Sample : PEST MIX AB #3, 200 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32





ST__012.D P3-1016.M Wed Oct 17 13:55:49 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__013.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__013.D\ECD2B.CH
Acq On : 16 Oct 2012 4:54 pm Operator: JW
Sample : PEST MIX AB #3, 100 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.38	2.67	8993978	3499226	189.976	197.242
Spiked Amount	200.000	Range	30 - 150	Recovery	=	94.99%	98.62%
) SA	Decachlorobiphen	6.39	7.07	7366473	2731009	202.080	185.229
Spiked Amount	200.000	Range	30 - 150	Recovery	=	101.04%	92.61%
	Target Compounds						
) M	alpha-BHC	2.75	3.13	6231882	2390551	95.972	101.981
) M	gamma-BHC (Linda	2.98	3.42	5417555	2172473	91.057	98.871
) M	beta-BHC	3.04	3.49	3109666	1154118	89.653	97.419
) M	delta-BHC	3.17	3.74	5306173	1924158	90.961	93.987
) M	Heptachlor	3.33	3.80	4747614	1809440	81.999	93.642
) M	Aldrin	3.57	4.09	4876766	1971272	90.147	92.908
) M	Heptachlor Epoxi	4.06	4.56	4487980	1784753	85.662	91.773
) M	gamma-Chlordane	4.17	4.71	4848543	1880140	87.741	89.006
) M	alpha-Chlordane	4.27	4.83	4438349	1658961	89.663	87.925
) M	Endosulfan I	4.38	4.87	5414492	1824486	98.586	93.846
) M	4,4'-DDE	4.34	4.95	3461928	1726814	77.905	90.693
) M	Dieldrin	4.57	5.08	4432057	1791615	92.341	97.062
) M	Endrin	4.74	5.31	3675234	1467593	94.600	94.926
) M	4,4'-DDD	4.80	5.37	3520934	1221748	96.665	93.569
) M	Endosulfan II	4.91	5.46	3137645	1266916	76.112	74.093
) M	4,4'-DDT	5.01	5.60	3520827	1271522	103.714	89.663
) M	Endrin Aldehyde	5.22	5.69	3240903	1340815	104.303	105.694
) M	Methoxychlor	5.36	6.06	1554953	595853	93.264	101.666
) M	Endosulfan sulfa	5.52	5.88	3383895	1330007	96.202	93.077
) M	Endrin Ketone	5.72	6.25	4068661	1539804	107.542	96.337

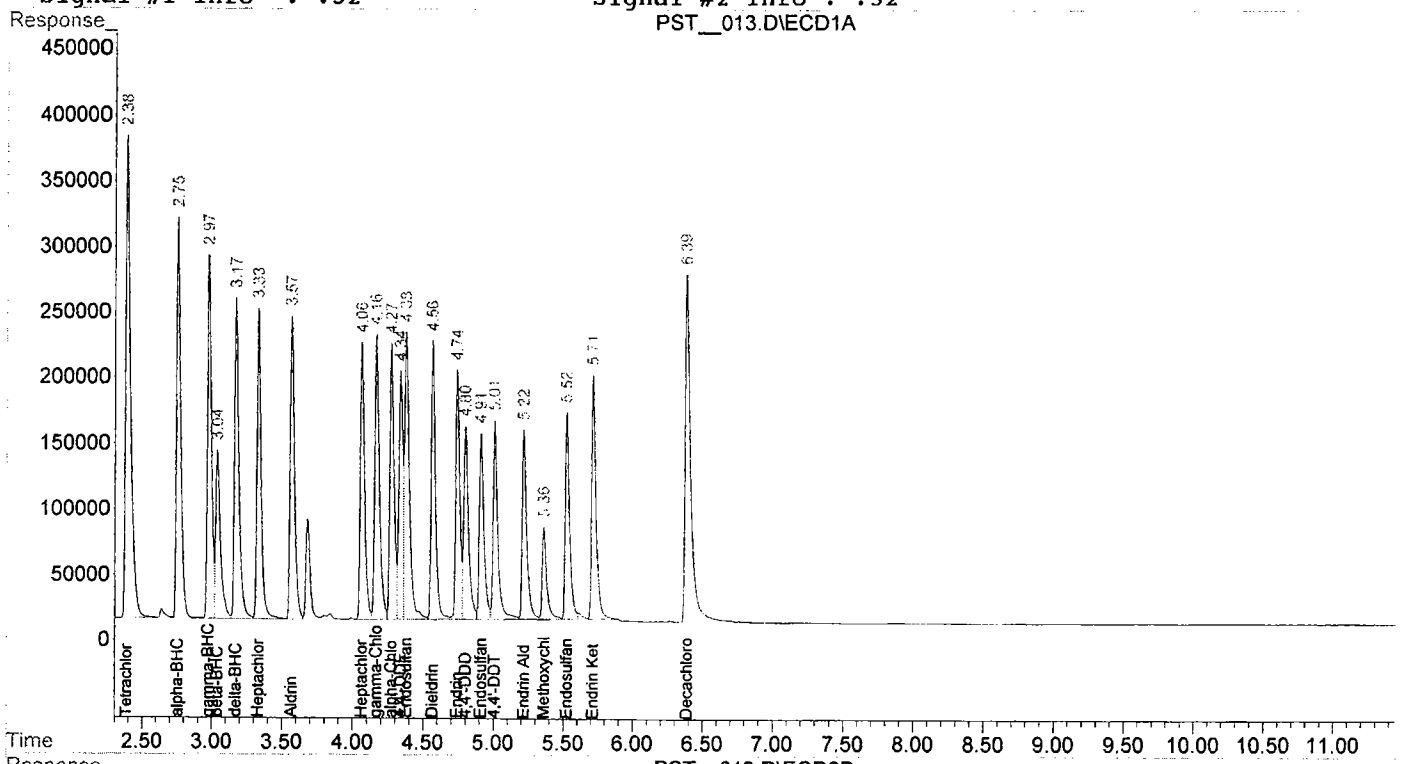
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST 013.D P3-1016.M Wed Oct 17 13:55:59 2012

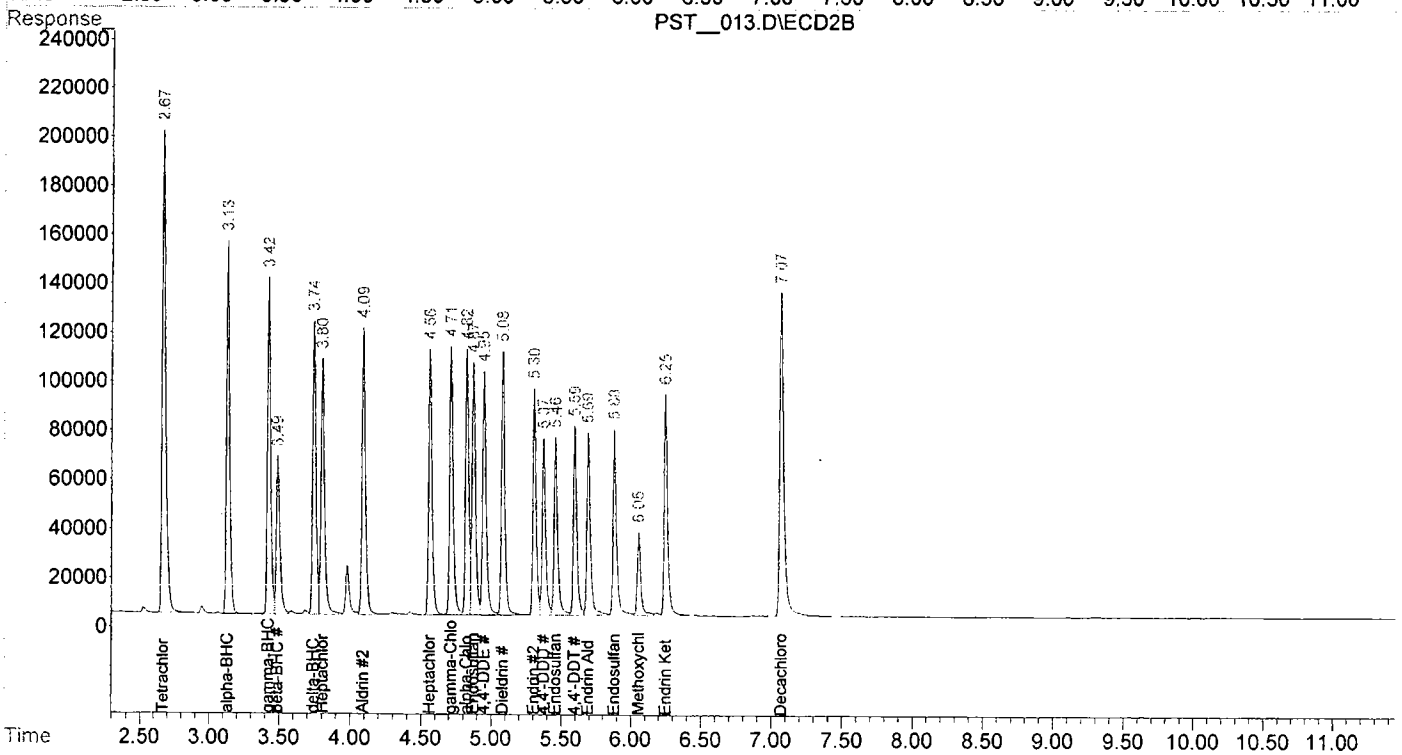
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101612\PST__013.D\ECD1A.CH  Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__013.D\ECD2B.CH
Acq On    : 16 Oct 2012   4:54 pm                        Operator: JW
Sample    : PEST MIX AB #3, 100 ng/mL                    Inst    : GC ECD #3
Misc      : QBPEST3-101612A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17  7:53 2012  Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title        : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Tue Oct 16 15:22:57 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





ST__013.D P3-1016.M Wed Oct 17 13:56:00 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__014.D\ECD2B.CH
Acq On : 16 Oct 2012 5:10 pm Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.39	2.67	7124030	2800266	150.478	157.843
Spiked Amount	200.000	Range	30 - 150	Recovery	=	75.24%	78.92%
) SA	Decachlorobiphen	6.39	7.07	6052075	2217952	166.023	150.432
Spiked Amount	200.000	Range	30 - 150	Recovery	=	83.01%	75.22%
	Target Compounds						
) M	alpha-BHC	2.75	3.13	3554446	1374729	54.739	58.646
) M	gamma-BHC (Linda	2.98	3.42	3180136	1265992	53.451	57.616
) M	beta-BHC	3.04	3.49	1780338	676899	51.328	57.137
) M	delta-BHC	3.17	3.74	3000883	1094308	51.443	53.452
) M	Heptachlor	3.33	3.80	2803242	1067819	48.417	55.261
) M	Aldrin	3.57	4.09	2849340	1140719	52.670	53.763
) M	Heptachlor Epoxi	4.06	4.56	2633914	1045966	50.273	53.784
) M	gamma-Chlordane	4.16	4.71	2822462	1097705	51.076	51.965
) M	alpha-Chlordane	4.27	4.83	2605941	990090	52.645	52.475
) M	Endosulfan I	4.38	4.87	3041812	1042561	55.384	53.626
) M	4,4'-DDE	4.34	4.95	2047469	999663	46.075	52.503
) M	Dieldrin	4.57	5.08	2555382	1036601	53.241	56.159
) M	Endrin	4.74	5.31	2193176	862032	56.452	55.757
) M	4,4'-DDD	4.80	5.37	2012563	703137	55.253	53.851
) M	Endosulfan II	4.91	5.46	1803071	748303	43.738	43.763
) M	4,4'-DDT	5.01	5.60	1949437	746257	57.425	52.623
) M	Endrin Aldehyde	5.22	5.69	1837660	776852	59.142	61.238
M	Methoxychlor	5.36	6.06	944445	374622	56.646	63.919
M	Endosulfan sulfa	5.52	5.88	1968919	765833	55.975	53.595
M	Endrin Ketone	5.72	6.25	2428990	923661	64.203	57.788

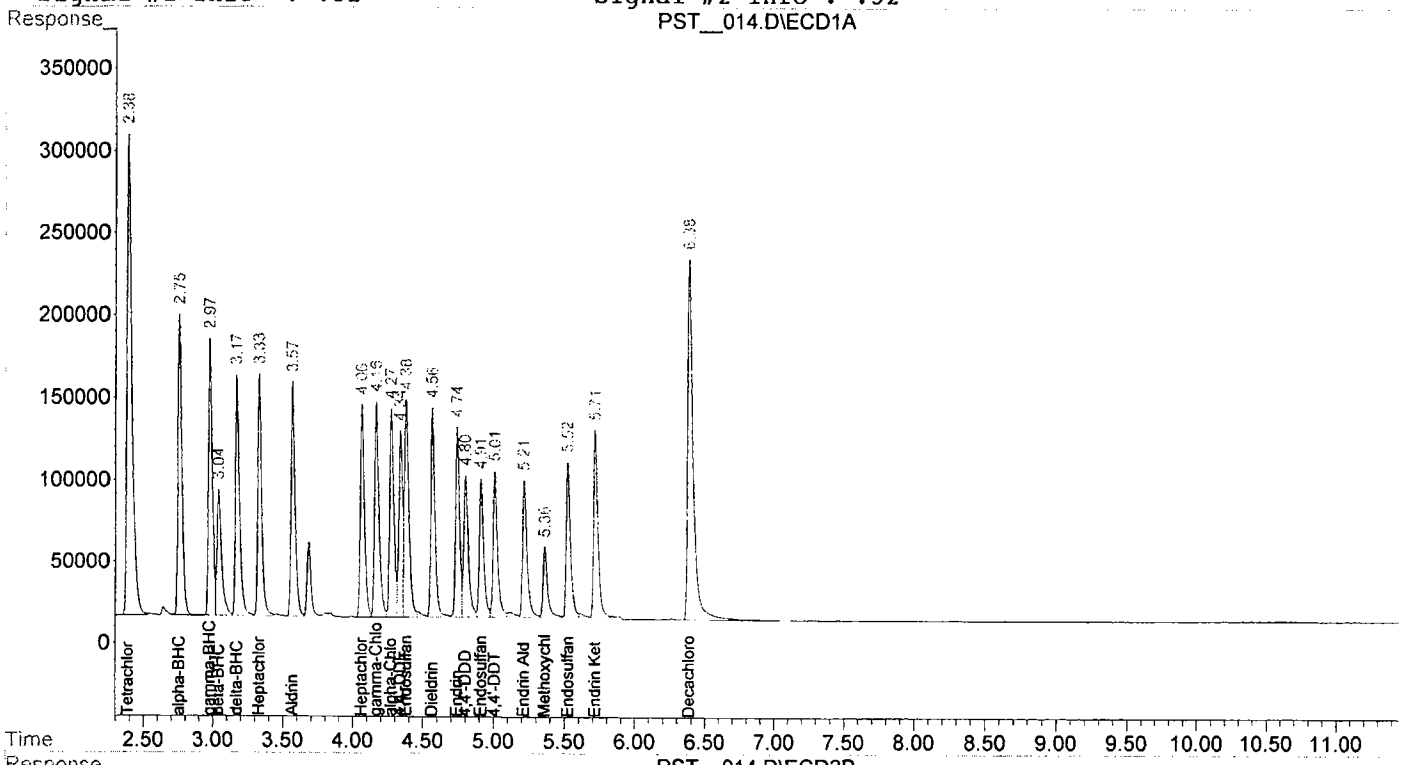
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST 014.D P3-1016.M Wed Oct 17 13:56:00 2012

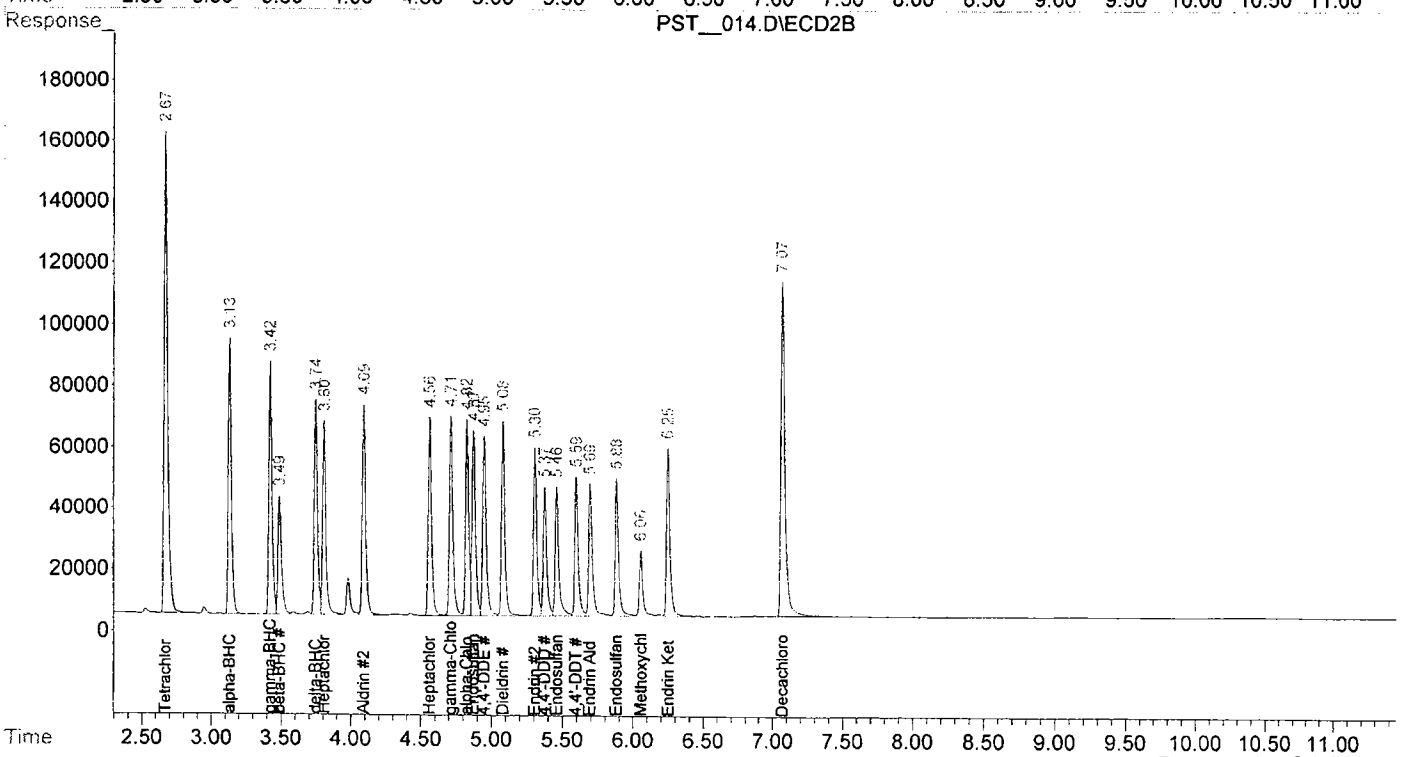
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__014.D\ECD2B.CH
Acq On : 16 Oct 2012 5:10 pm Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32





ST__014.D P3-1016.M Wed Oct 17 13:56:10 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__015.D\ECD2B.CH
Acq On : 16 Oct 2012 5:25 pm Operator: JW
Sample : PEST MIX AB #3, 20.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 7:53 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.39	2.67	5526571	2146601	116.736	120.998
;piked Amount	200.000	Range	30 - 150	Recovery	=	58.37%	60.50%
) SA	Decachlorobiphen	6.38	7.07	4048974	1493567	111.073	101.300
;piked Amount	200.000	Range	30 - 150	Recovery	=	55.54%	50.65%
	Target Compounds						
) M	alpha-BHC	2.75	3.13	1370114	523264	21.100	22.323
) M	gamma-BHC (Linda	2.98	3.42	1254680	489227	21.088	22.265
) M	beta-BHC	3.04	3.49	662816	256571	19.109	21.657
) M	delta-BHC	3.17	3.74	1087426	395343	18.641	19.311
) M	Heptachlor	3.33	3.80	1106322	416853	19.108	21.573
) M	Aldrin	3.57	4.09	1078637	422630	19.939	19.919
) M	Heptachlor Epoxi	4.06	4.56	1030470	402549	19.668	20.699
M	gamma-Chlordane	4.16	4.71	1092861	421384	19.777	19.948
M	alpha-Chlordane	4.27	4.83	1039008	388651	20.990	20.598
M	Endosulfan I	4.38	4.87	1233065	399245	22.451	20.536
M	4,4'-DDE	4.34	4.95	813286	377497	18.302	19.826
M	Dieldrin	4.56	5.08	972755	381836	20.267	20.686
M	Endrin	4.74	5.31	884477	331937	22.766	21.470
M	4,4'-DDD	4.80	5.37	757643	259828	20.801	19.899
M	Endosulfan II	4.91	5.46	923991	373742	22.414	21.857
M	4,4'-DDT	5.01	5.60	767597	278176	22.611	19.616
M	Endrin Aldehyde	5.22	5.69	627174	228013	20.184	17.974
M	Methoxychlor	5.36	6.06	448657	141038	26.910	24.064
M	Endosulfan sulfa	5.52	5.88	784365	273744	22.299	19.157
M	Endrin Ketone	5.71	6.25	946729	319437	25.024	19.985

Quantitation Report

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Signal #1 : C:\HPCHEM\1\DATA\101612\PST__015.D\ECD1A.CH  Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__015.D\ECD2B.CH
Acq On    : 16 Oct 2012   5:25 pm                        Operator: JW
Sample    : PEST MIX AB #3, 20.0 ng/mL                   Inst    : GC ECD #3
Misc      : QBPEST3-101612A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17  7:53 2012  Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title        : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Tue Oct 16 15:22:57 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```
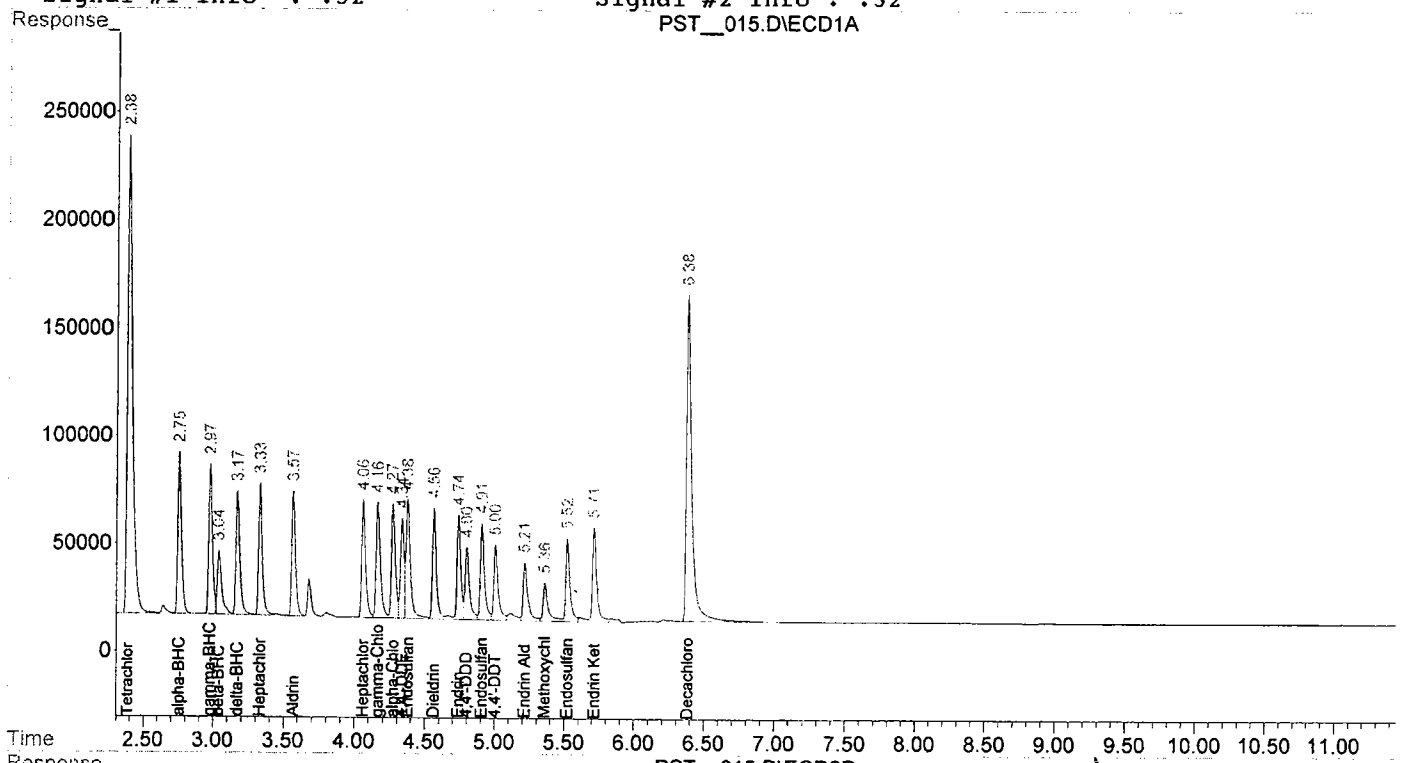
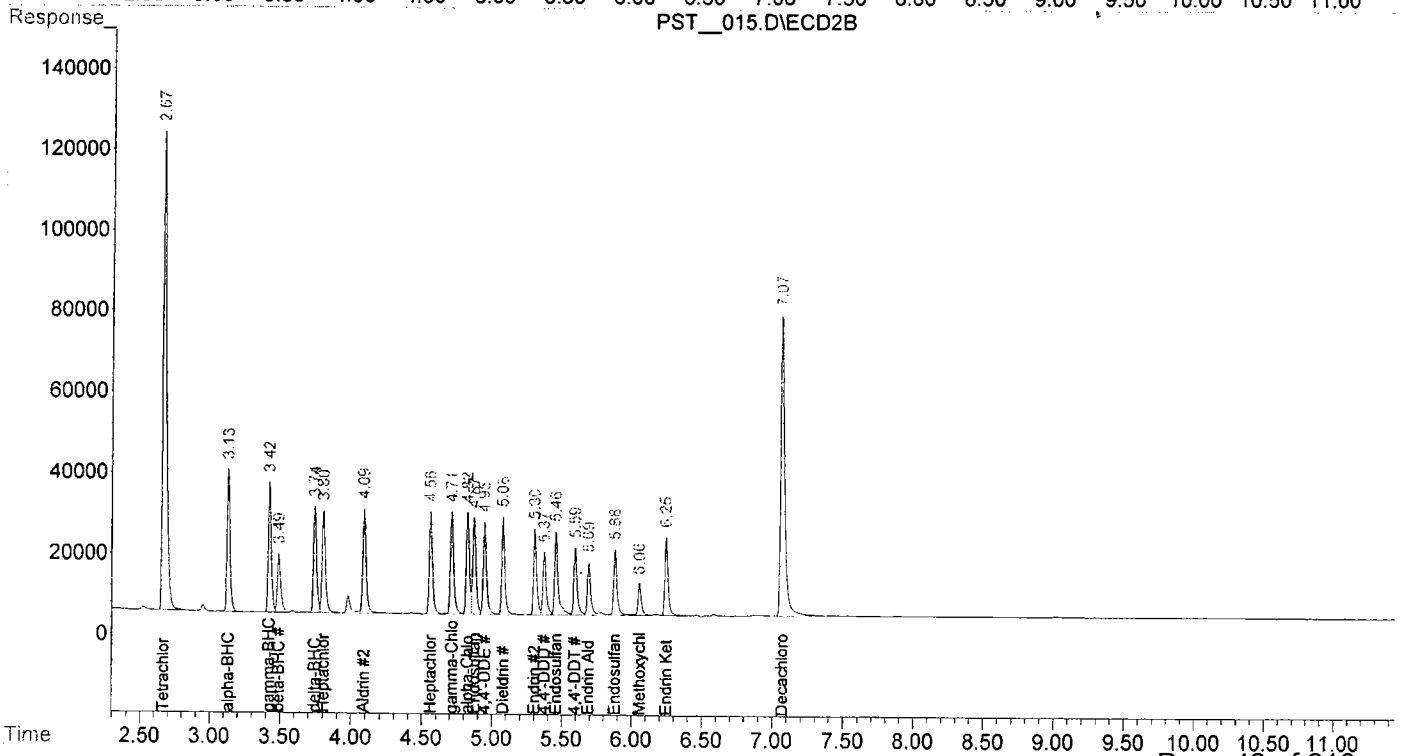





ST__015.D P3-1016.M Wed Oct 17 13:56:20 2012

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__016.D\ECD2B.CH
Acq On : 16 Oct 2012 5:40 pm Operator: JW
Sample : PEST MIX AB #3, 5.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 8:01 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Tue Oct 16 15:22:57 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

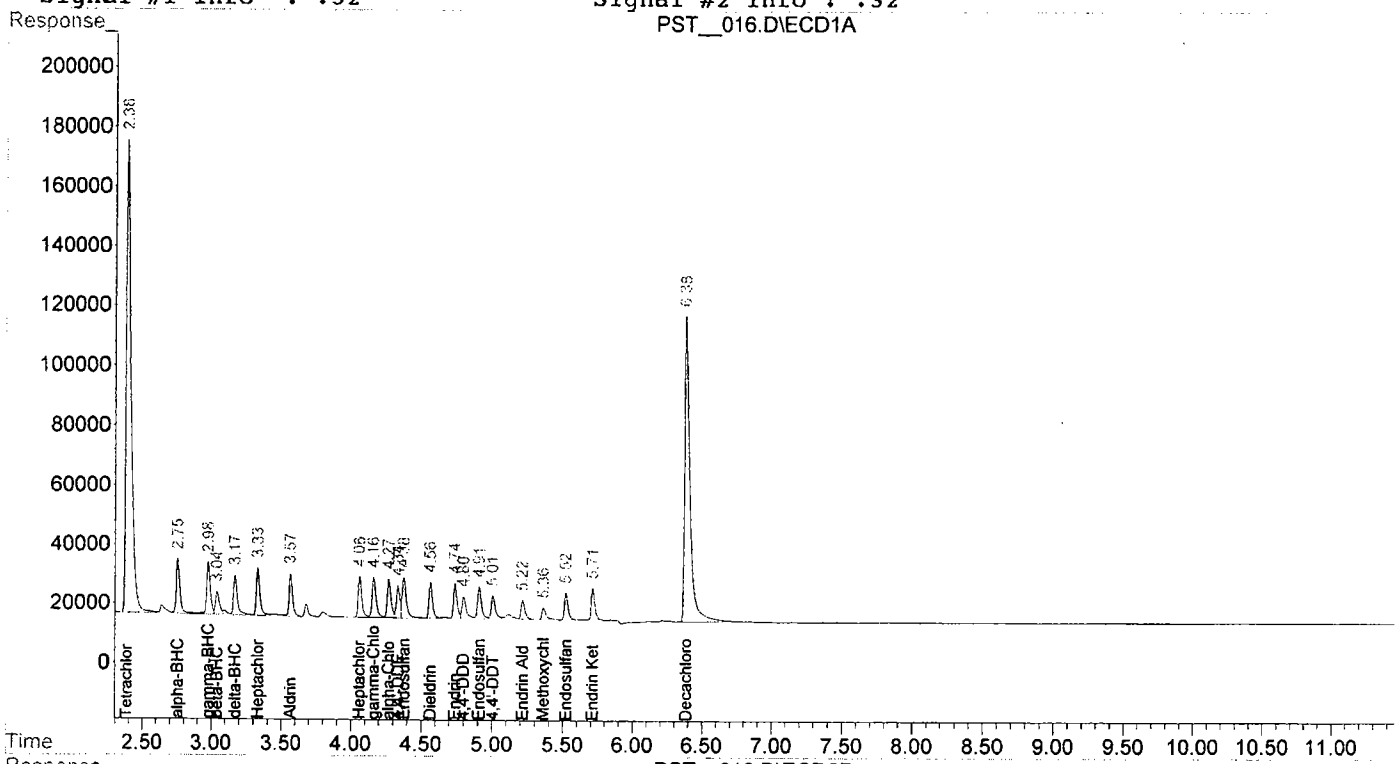
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

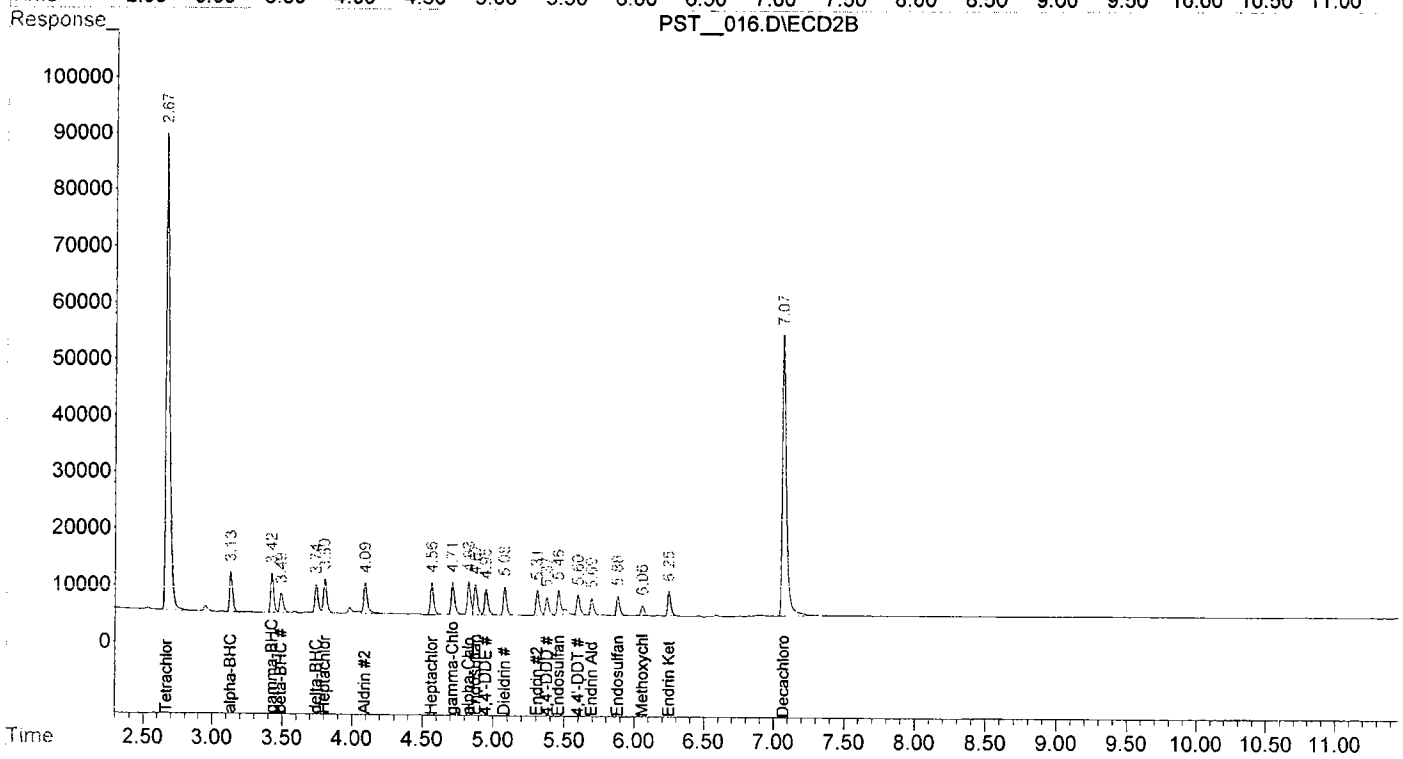
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.39	2.67	3965485	1538612	83.761	86.727
Spiked Amount	200.000	Range	30 - 150	Recovery	=	41.88%	43.36%
) SA	Decachlorobiphen	6.38	7.07	2702237	1005364	74.129m	68.188
Spiked Amount	200.000	Range	30 - 150	Recovery	=	37.06%	34.09%
	Target Compounds						
) M	alpha-BHC	2.75	3.13	336451	107934	5.181	4.604
) M	gamma-BHC (Linda	2.98	3.42	323346	104059	5.435	4.736
) M	beta-BHC	3.04	3.49	159033	61466	4.585	5.188
) M	delta-BHC	3.17	3.74	261186	79329	4.477	3.875
) M	Heptachlor	3.33	3.81	294969	100992	5.095	5.227
) M	Aldrin	3.57	4.09	264288	105284	4.885	4.962
) M	Heptachlor Epoxi	4.06	4.56	252060	94352	4.811	4.852
) M	gamma-Chlordane	4.17	4.71	269738	99240	4.881	4.698
) M	alpha-Chlordane	4.27	4.83	246205	93135	4.974	4.936
) M	Endosulfan I	4.38	4.87	283847	91120	5.168	4.687
M	4,4'-DDE	4.34	4.95	186547	79461	4.198	4.173
M	Dieldrin	4.57	5.08	213155	80807	4.441	4.378
M	Endrin	4.74	5.31	203959	72440	5.250	4.686
M	4,4'-DDD	4.80	5.38	161316	57310	4.429	4.389
M	Endosulfan II	4.91	5.46	209429	72825	5.080	4.259
M	4,4'-DDT	5.01	5.60	165067	62102	4.862	4.379
M	Endrin Aldehyde	5.22	5.69	126288	51769	4.064	4.081
M	Methoxychlor	5.36	6.06	75720	29057	4.542m	4.958m
M	Endosulfan sulfa	5.52	5.88	154389	57242	4.389m	4.006m
M	Endrin Ketone	5.71	6.25	182854	68227	4.833m	4.269m

f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST 016.D P3-1016.M Wed Oct 17 13:56:29 2012

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101612\PST__016.D\ECD1A.CH  Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__016.D\ECD2B.CH
Acq On    : 16 Oct 2012   5:40 pm                        Operator: JW
Sample    : PEST MIX AB #3, 5.0 ng/mL                    Inst    : GC ECD #3
Misc      : QBPEST3-101612A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E      IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17  8:01 2012  Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title        : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Tue Oct 16 15:22:57 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__026.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__026.D\ECD2B.CH
Acq On : 16 Oct 2012 8:12 pm Operator: JW
Sample : PEST MIX AB #3, 1.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 9:24 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 07:58:35 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
) SA	Tetrachloro-m-xy	2.38	2.67	2187061	921365	46.751	49.515
Spiked Amount	200.000 Range	30 - 150	Recovery	=		23.38%#	24.76%#
) SA	Decachlorobiphen	6.38	7.07	1787447	702895	47.339m	50.086
Spiked Amount	200.000 Range	30 - 150	Recovery	=		23.67%#	25.04%#
	Target Compounds						
M	alpha-BHC	2.75	3.13	76069	27017	1.131m	1.089
M	gamma-BHC (Linda	2.97	3.42	68810	24221	1.107m	1.043m
M	beta-BHC	3.04	3.49	36981	14523	1.125m	1.122m
M	delta-BHC	3.17	3.74	58227	19281	1.065m	1.019m
M	Heptachlor	3.33	3.80	64690	20521	1.169m	1.015m
M	Aldrin	3.56	4.09	64950	23747	1.205m	1.112m
M	Heptachlor Epoxi	4.06	4.56	66581	27193	1.252m	1.317m
M	gamma-Chlordane	4.16	4.71	72149	28151	1.285m	1.280m
M	alpha-Chlordane	4.27	4.82	53165	24752	1.091m	1.206m
M	Endosulfan I	4.38	4.87	74310	26021	1.220m	1.284m
M	4,4'-DDE	4.34	4.95	48969	21798	1.236m	1.173m
M	Dieldrin	4.56	5.08	56169	23537	1.180m	1.216m
M	Endrin	4.74	5.30	54430	19780	1.260m	1.219m
M	4,4'-DDD	4.80	5.37	35981	15976	0.982m	1.226m
M	Endosulfan II	4.91	5.46	43386	15549	1.048m	0.958m
M	4,4'-DDT	5.00	5.59	41114	16417	1.082m	1.161m
M	Endrin Aldehyde	5.21	5.69	26584	15646	0.849m	1.178m#
M	Methoxychlor	5.36	6.06	21139	8897	1.189m	1.361m
M	Endosulfan sulfa	5.52	5.88	43463	18707	1.120m	1.296m
M	Endrin Ketone	5.71	6.25	60495	21010	1.212m	1.198m

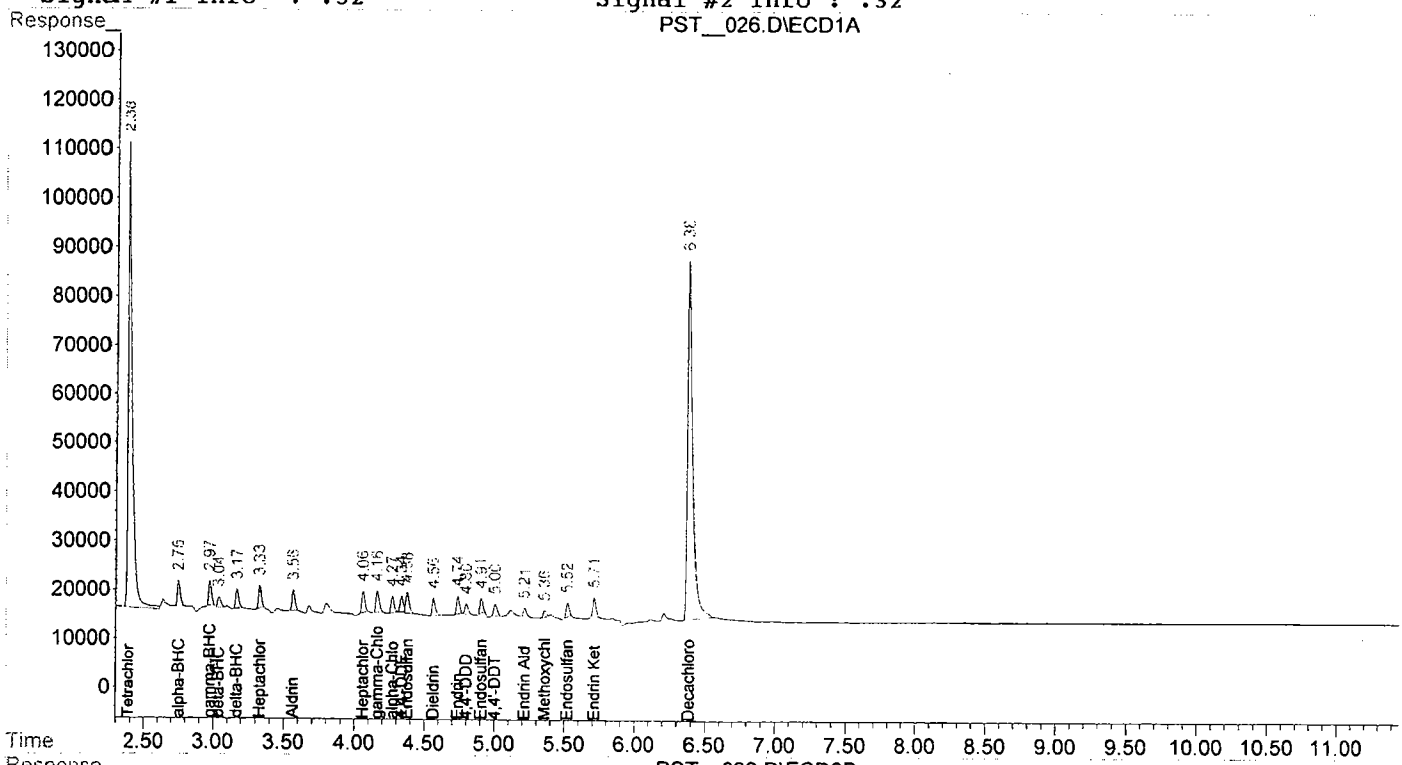
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST 026.D P3-1016.M Wed Oct 17 13:56:42 2012

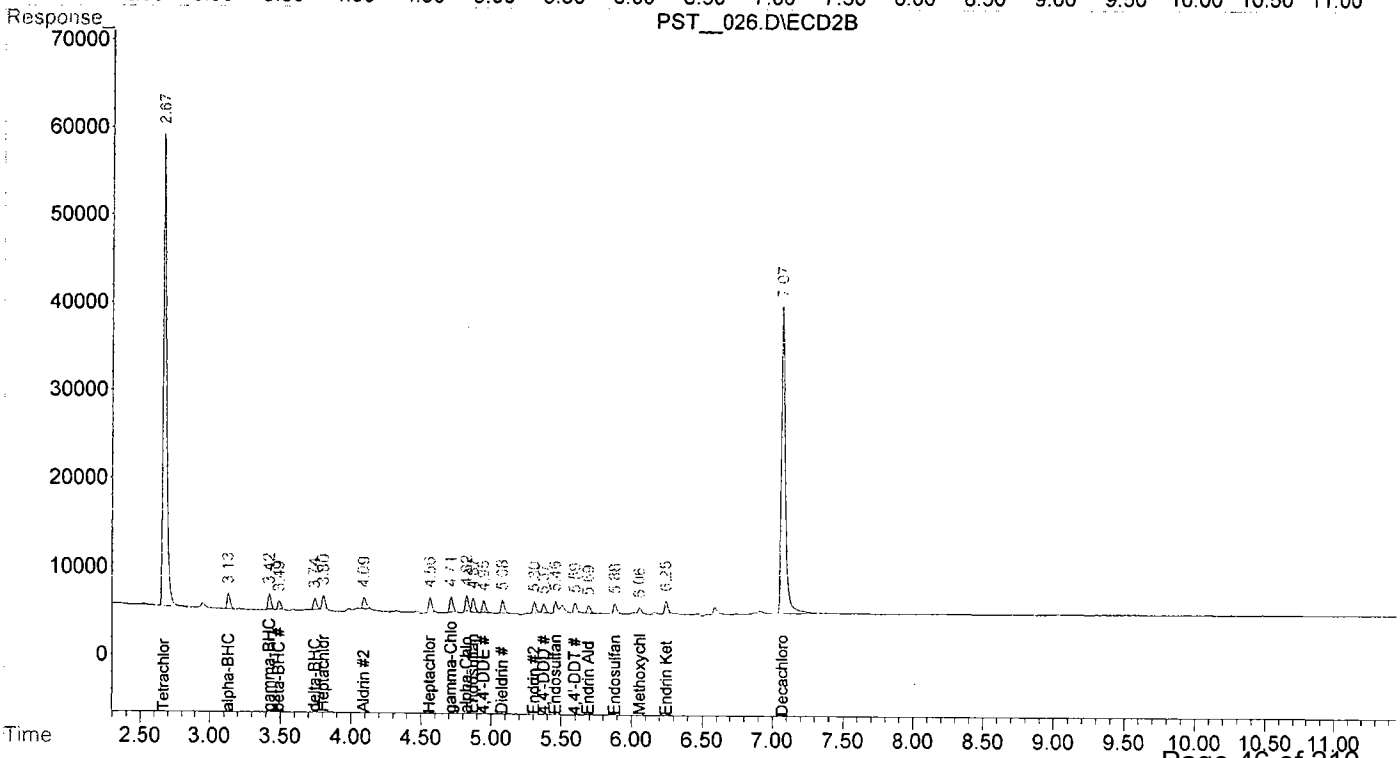
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__026.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__026.D\ECD2B.CH
Acq On : 16 Oct 2012 8:12 pm Operator: JW
Sample : PEST MIX AB #3, 1.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 9:24 2012 Quant Results File: P3-0626.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-0626.M (Chemstation Integrator)
Title : 6/26/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 07:58:35 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32





ST__026.D P3-1016.M Wed Oct 17 13:56:43 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101612\PST__027.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__027.D\ECD2B.CH
Acq On : 16 Oct 2012 8:27 pm Operator: JW
Sample : PEST REF STD, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101612A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 13:56 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

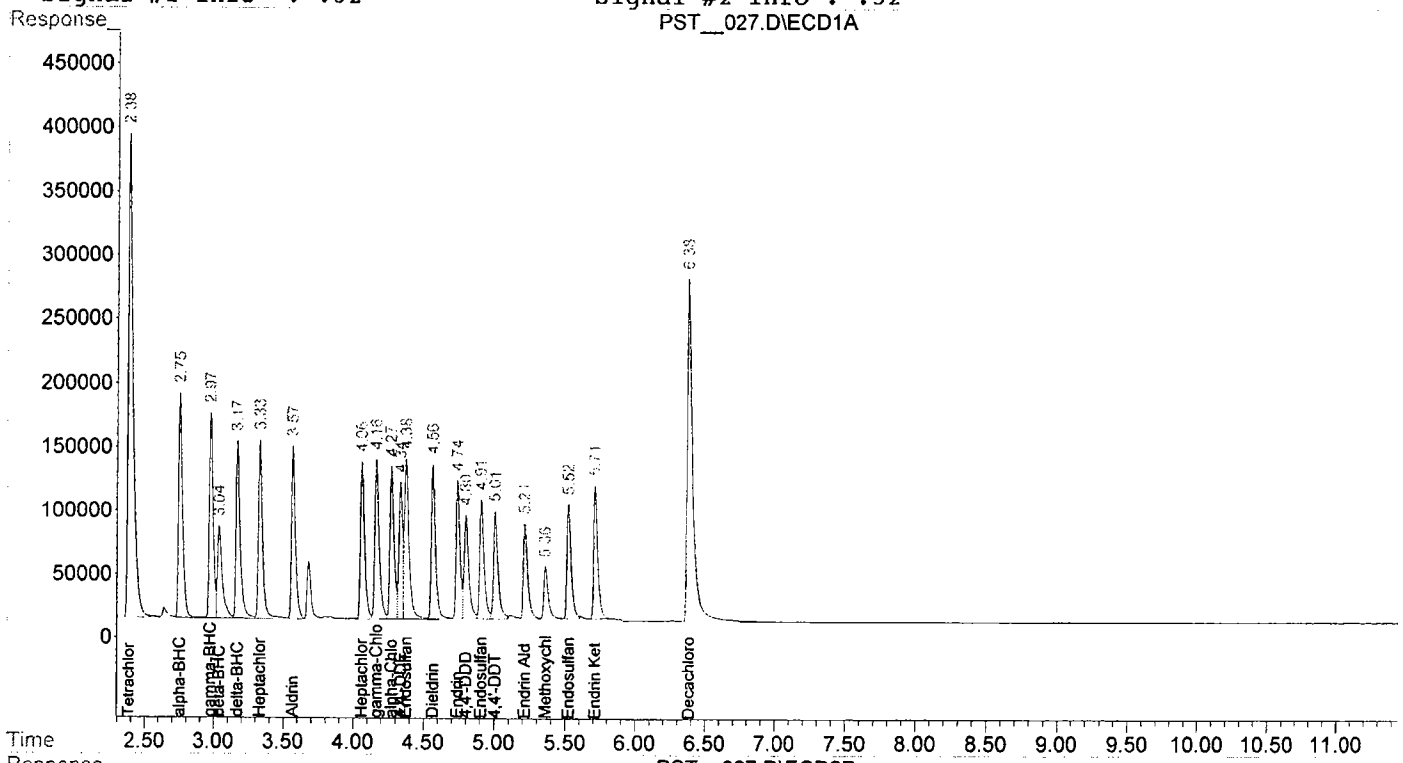
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

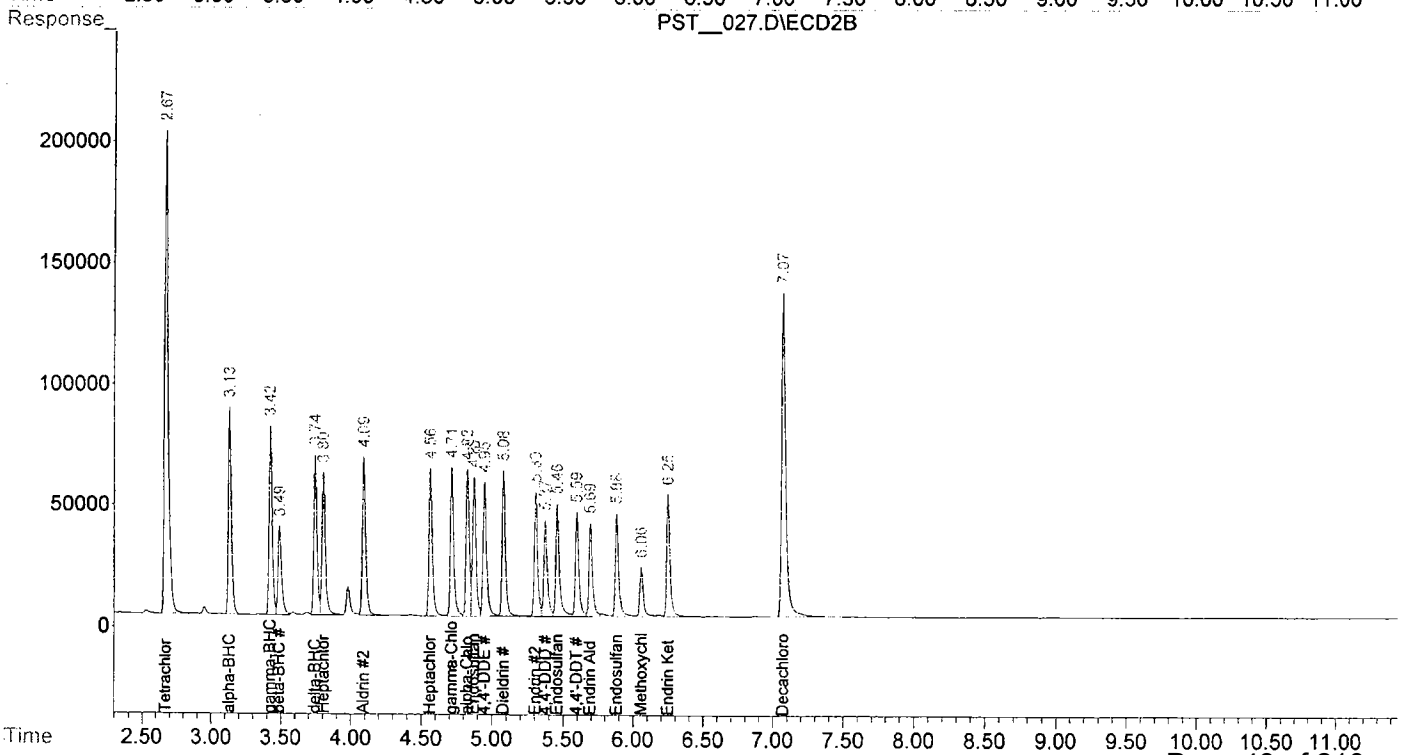
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
SA	Tetrachloro-m-xy	2.38	2.67	9321261	3573962	200.126	193.599
Spiked Amount	200.000	Range	30 - 150	Recovery	=	100.06%	96.80%
SA	Decachlorobiphen	6.39	7.07	7491776	2744730	204.978	201.677
Spiked Amount	200.000	Range	30 - 150	Recovery	=	102.49%	100.84%
	Target Compounds						
M	alpha-BHC	2.75	3.13	3464211	1305624	51.725	53.082
M	gamma-BHC (Linda	2.98	3.42	3079914	1198747	51.187	53.043
M	beta-BHC	3.04	3.49	1732527	639000	53.198	51.262
M	delta-BHC	3.17	3.74	2919605	1033480	54.096	55.202
M	Heptachlor	3.33	3.80	2712947	979679	50.248	50.197
M	Aldrin	3.57	4.09	2725993	1064672	51.082	50.649
M	Heptachlor Epoxi	4.06	4.56	2524032	994204	49.655	49.362
M	gamma-Chlordane	4.16	4.71	2681686	1037875	49.179	49.294
M	alpha-Chlordane	4.27	4.83	2475290	934154	51.486	49.388
M	Endosulfan I	4.38	4.87	2964353	989971	49.865	49.706
M	4,4'-DDE	4.34	4.95	1937163	948655	50.308	52.127
M	Dieldrin	4.57	5.08	2434854	971978	51.659	51.338
M	Endrin	4.74	5.31	2069884	811681	49.422	50.927
M	4,4'-DDD	4.80	5.37	1903371	668044	53.665	51.906
M	Endosulfan II	4.91	5.46	1997698	821745	52.831	55.798
M	4,4'-DDT	5.01	5.60	1875215	708915	51.052	52.175
M	Endrin Aldehyde	5.22	5.69	1641727	667518	54.568	51.189
M	Methoxychlor	5.36	6.06	895368	362400	51.606	57.464
M	Endosulfan sulfa	5.52	5.88	1863313	725451	50.966	51.501
M	Endrin Ketone	5.72	6.25	2170271	849726	48.009	51.906

f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST 027.D P3-1016.M Wed Oct 17 13:57:40 2012

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101612\PST__027.D\ECD1A.CH  Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\101612\PST__027.D\ECD2B.CH
Acq On    : 16 Oct 2012   8:27 pm                        Operator: JW
Sample    : PEST REF STD, 50.0 ng/mL                     Inst    : GC ECD #3
Misc      : QBPEST3-101612A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 13:56 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





% BREAKDOWN of ENDRIN and DDT

DATE: 10/17/2012 TIME: 9:28 AM

ENDRIN	ALDEHYDE	KETONE	TOTAL AREA	%BREAKDOWN ENDRIN
7198578	30932	127747	7357257	2.2

DDT	DDE	DDD	TOTAL AREA	%BREAKDOWN DDT
5829958	251767	0	6081725	4.1

% BREAKDOWN of ENDRIN and DDT

ENDRIN	ALDEHYDE	KETONE	TOTAL AREA	%BREAKDOWN ENDRIN
2749776	16464	44222	2810462	2.2

DDT	DDE	DDD	TOTAL AREA	%BREAKDOWN DDT
2224270	98988	0	2323258	4.3

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__001.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__001.D\ECD2B.CH
Acq On : 17 Oct 2012 9:28 am Operator: JW
Sample : DDT, ENDRIN Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-121, 117, 119 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:11 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

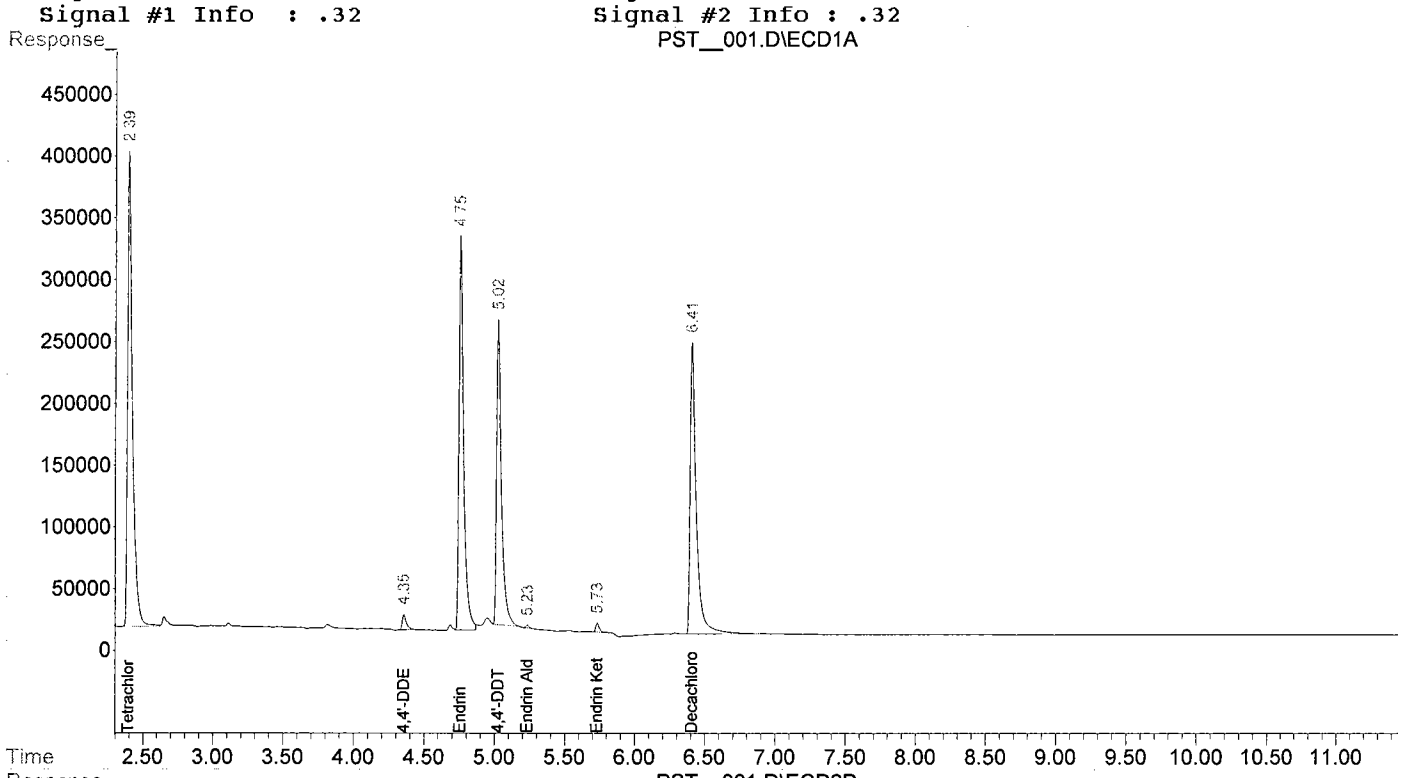
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

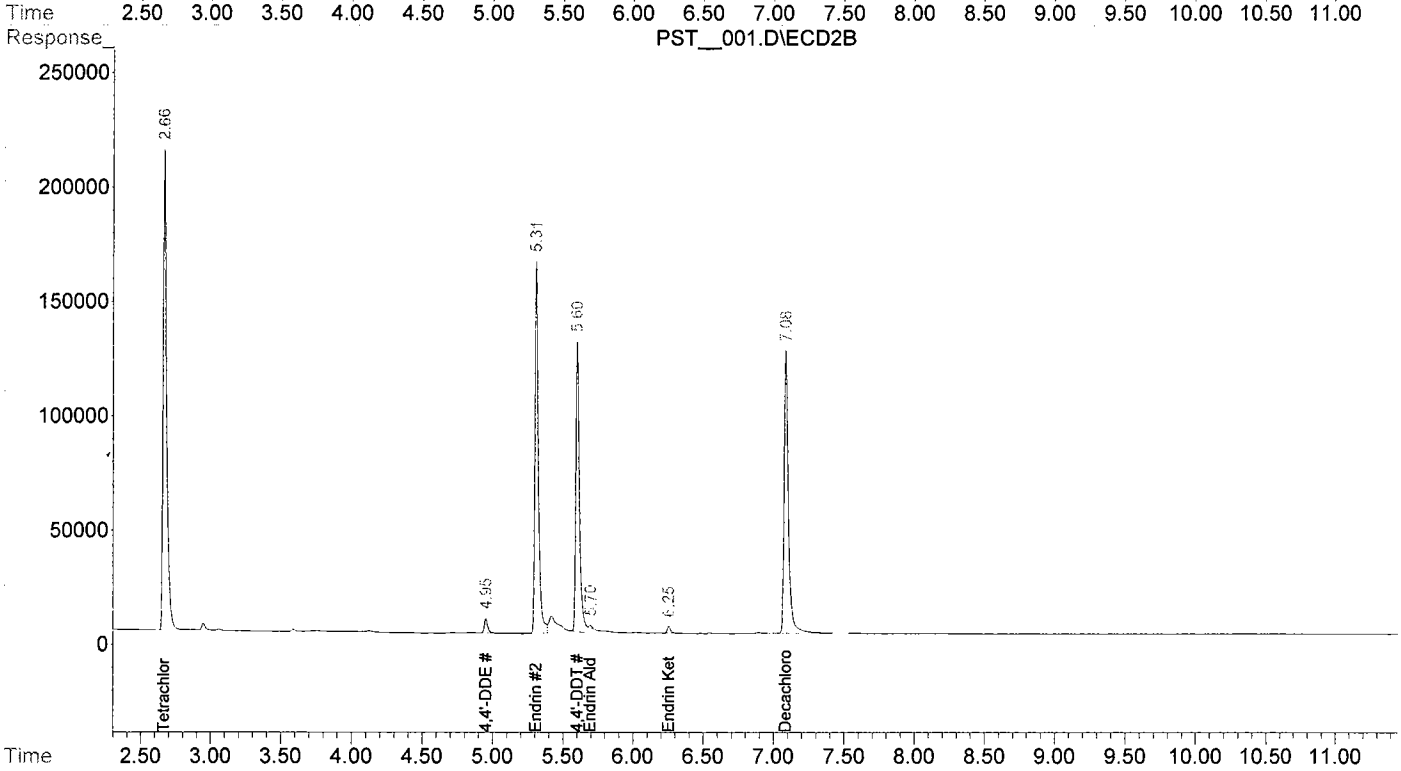
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.39	2.67	9366903	3730487	201.105	202.078
	Spiked Amount 200.000 Range 30 - 150 Recovery =					100.55%	101.04%
22) SA	Decachlorobiphen	6.41f	7.09	7101948	2676425	194.312m	196.658
	Spiked Amount 200.000 Range 30 - 150 Recovery =					97.16%	98.33%
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D. d	N.D. d
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D. d	N.D. d
4) M	beta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
5) M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
7) M	Aldrin	0.00	0.00	0	0	N.D. d	N.D. d
8) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10) M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M	Endosulfan I	0.00	0.00	0	0	N.D. d	N.D. d
12) M	4,4'-DDE	4.35f	4.95	251767	98988	6.538m	5.439m
13) M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14) M	Endrin	4.75	5.31	7198578	2749776	171.879m	172.527
15) M	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16) M	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17) M	4,4'-DDT	5.02f	5.60	5829958	2224270	158.718m	163.703m
18) M	Endrin Aldehyde	5.23	5.70	30932	16464	1.028m	1.263m
19) M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
20) M	Endosulfan sulfa	0.00	0.00	0	0	N.D. d	N.D. d
21) M	Endrin Ketone	5.73f	6.25	127747	44222	2.826m	2.701m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__001.D\ECD1A.CH  Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__001.D\ECD2B.CH
Acq On    : 17 Oct 2012   9:28 am                    Operator: JW
Sample    : DDT, ENDRIN                              Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-121, 117, 119 Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:11 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD2B.CH
Acq On : 17 Oct 2012 9:43 am Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	46.577	44.063 E3	5.4	99	0.00
2	M	alpha-BHC	66.974	70.499 E3	-5.3	99	0.00
3	M	gamma-BHC (Lindane)	60.170	62.800 E3	-4.4	99	0.00
4	M	beta-BHC	32.567	35.702 E3	-9.6	100	0.00
5	M	delta-BHC	53.971	59.300 E3	-9.9	99	0.00
6	M	Heptachlor	53.991	54.566 E3	-1.1	97	0.00
7	M	Aldrin	53.365	55.902 E3	-4.8	98	0.00
8	M	Heptachlor Epoxide	50.831	51.370 E3	-1.1	98	0.00
9	M	gamma-Chlordane	54.529	55.516 E3	-1.8	98	0.00
10	M	alpha-Chlordane	48.077	51.443 E3	-7.0	99	0.00
11	M	Endosulfan I	59.448	59.164 E3	0.5	97	0.00
12	M	4,4'-DDE	38.506	37.524 E3	2.6	92	0.00
13	M	Dieldrin	47.133	47.681 E3	-1.2	93	0.00
14	M	Endrin	41.882	41.295 E3	1.4	94	0.00
15	M	4,4'-DDD	35.468	35.632 E3	-0.5	89	0.00
16	M	Endosulfan II	37.813	34.347 E3	9.2	95	0.00
17	M	4,4'-DDT	36.732	36.112 E3	1.7	93	0.00
18	M	Endrin Aldehyde	30.086	34.130 E3	-13.4	93	0.00
19	M	Methoxychlor	17.350	15.344 E3	11.6	81	0.00
20	M	Endosulfan sulfate	36.560	35.447 E3	3.0	90	0.00
21	M	Endrin Ketone	45.206	42.330 E3	6.4	87	0.00
22	SA	Decachlorobiphenyl	36.549	32.275 E3	11.7	85	0.00

Signal #2

1	SA	Tetrachloro-m-xylene	18.461	17.279 E3	6.4	99	0.00
2	M	alpha-BHC	24.597	26.796 E3	-8.9	97	0.00
3	M	gamma-BHC (Lindane)	22.600	24.449 E3	-8.2	97	0.00
4	M	beta-BHC	12.465	13.367 E3	-7.2	99	0.00
5	M	delta-BHC	18.722	20.831 E3	-11.3	95	0.00
6	M	Heptachlor	19.517	20.323 E3	-4.1	95	0.00
7	M	Aldrin	21.021	22.225 E3	-5.7	97	0.00
8	M	Heptachlor Epoxide	20.141	19.907 E3	1.2	95	0.00
9	M	gamma-Chlordane	21.055	21.141 E3	-0.4	96	0.00
10	M	alpha-Chlordane	18.915	19.034 E3	-0.6	96	0.00
11	M	Endosulfan I	19.916	19.737 E3	0.9	95	0.00
12	M	4,4'-DDE	18.199	18.780 E3	-3.2	94	0.00
13	M	Dieldrin	18.933	19.213 E3	-1.5	93	0.00
14	M	Endrin	15.938	15.372 E3	3.6	89	0.00
15	M	4,4'-DDD	12.870	12.508 E3	2.8	89	0.00
16	M	Endosulfan II	14.727	13.577 E3	7.8	91	0.00
17	M	4,4'-DDT	13.587	13.210 E3	2.8	89	0.00
18	M	Endrin Aldehyde	13.040	14.197 E3	-8.9	91	0.00
19	M	Methoxychlor	6.307	6.191 E3	1.8	83	0.00
20	M	Endosulfan sulfate	14.086	13.936 E3	1.1	91	0.00
21	M	Endrin Ketone	16.371	15.445 E3	5.7	84	0.00
22	SA	Decachlorobiphenyl	13.610	11.954 E3	12.2	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PST__002.D P3-1016.M Wed Oct 17 14:12:17 2012

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD2B.CH
Acq On : 17 Oct 2012 9:43 am Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 9:56 2012 Quant Results File: P3-1016.RES

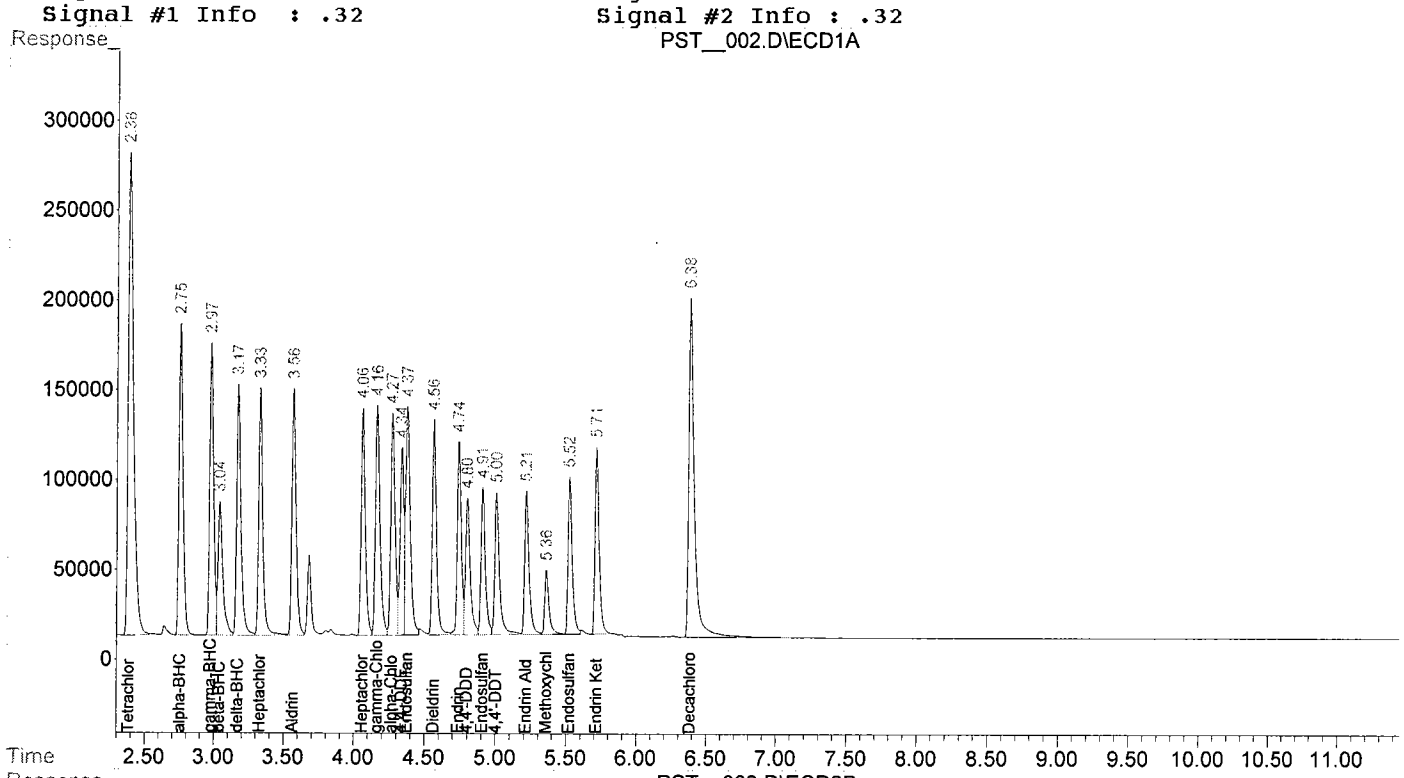
Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 09:24:25 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

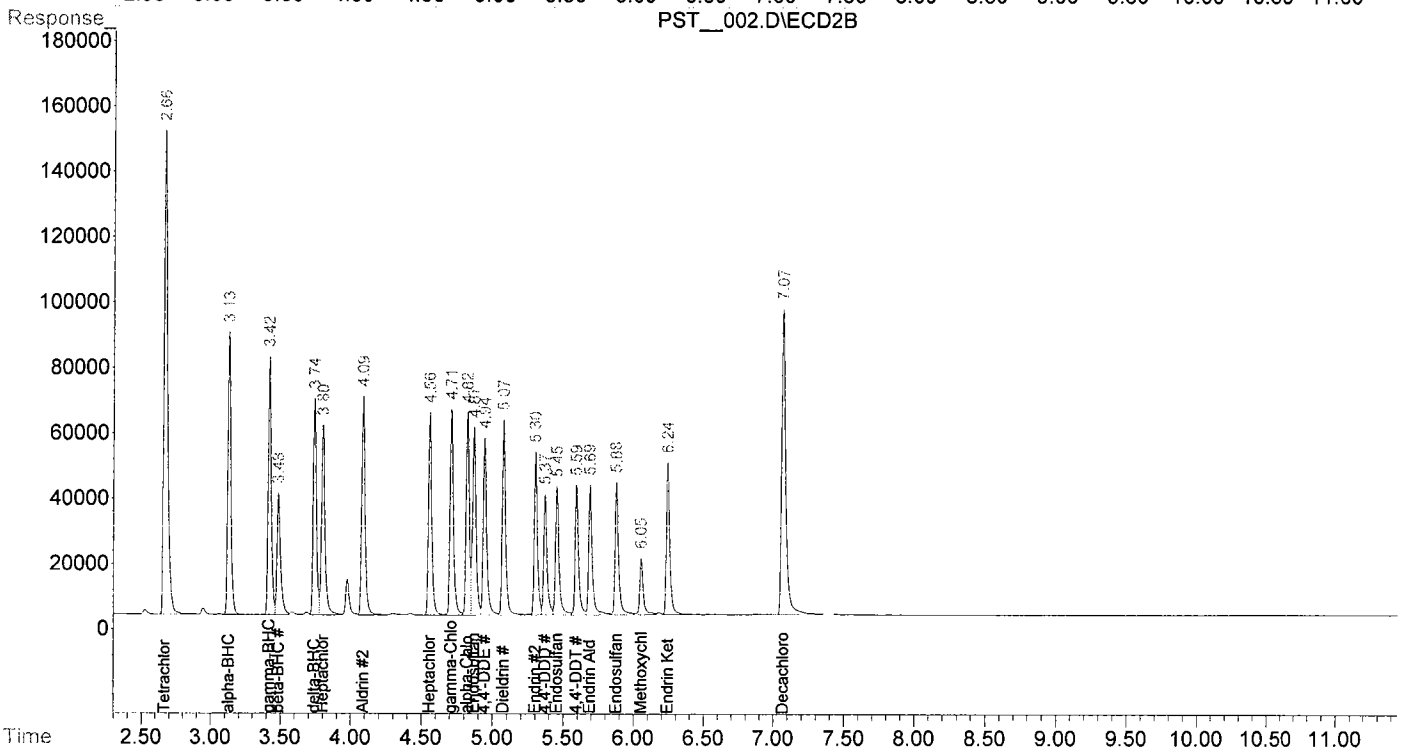
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.38	2.67	7050147	2764667	151.365	149.760
	Spiked Amount 200.000 Range 30 - 150 Recovery =					75.68%	74.88%
22) SA	Decachlorobiphen	6.39	7.07	5164014	1912653	141.007	140.538
	Spiked Amount 200.000 Range 30 - 150 Recovery =					70.50%	70.27%
	Target Compounds						
2) M	alpha-BHC	2.75	3.13	3524927	1339794	52.631	54.471
3) M	gamma-BHC (Linda	2.98	3.42	3139985	1222444	52.185	54.091
4) M	beta-BHC	3.04	3.49	1785101	668354	54.813	53.617
5) M	delta-BHC	3.17	3.74	2964983	1041568	54.937	55.634
6) M	Heptachlor	3.33	3.80	2728298	1016161	50.533	52.067
7) M	Aldrin	3.57	4.09	2795112	1111268	52.378	52.866
8) M	Heptachlor Epoxi	4.06	4.56	2568517	995363	50.531	49.420
9) M	gamma-Chlordane	4.16	4.71	2775797	1057062	50.905	50.205
10) M	alpha-Chlordane	4.27	4.82	2572128	951709	53.500	50.316
11) M	Endosulfan I	4.38	4.87	2958193	986836	49.761	49.549
12) M	4,4'-DDE	4.34	4.94	1876220	939022	48.726	51.597
13) M	Dieldrin	4.56	5.08	2384043	960673	50.581	50.741
14) M	Endrin	4.74	5.30	2064732	768591	49.299	48.223
15) M	4,4'-DDD	4.80	5.37	1781608	625409	50.232	48.593
16) M	Endosulfan II	4.91	5.45	1717369	678865	45.417	46.096
17) M	4,4'-DDT	5.01	5.59	1805577	660496	49.156	48.612
18) M	Endrin Aldehyde	5.21	5.69	1706482	709850	56.720	54.435
19) M	Methoxychlor	5.36	6.05	767197	309544	43.169	47.364
20) M	Endosulfan sulfa	5.52	5.88	1772342	696788	48.213	49.452
21) M	Endrin Ketone	5.71	6.24	2116510	772234	45.261	46.784

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD1A.CH  Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__002.D\ECD2B.CH
Acq On    : 17 Oct 2012   9:43 am                  Operator: JW
Sample    : PEST MIX AB #3, 50.0 ng/mL             Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121    Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17  9:56 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 09:24:25 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__003.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__003.D\ECD2B.CH
Acq On : 17 Oct 2012 9:58 am Operator: JW
Sample : CHLORDANE, 1.0 ug/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:16 2012 Quant Results File: CHL-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\CHL-1016.M (Chemstation Integrator)
Title : Chlordane - RTX-CLP & CLP-2 10/16/12
Last Update : Wed Oct 17 14:13:49 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

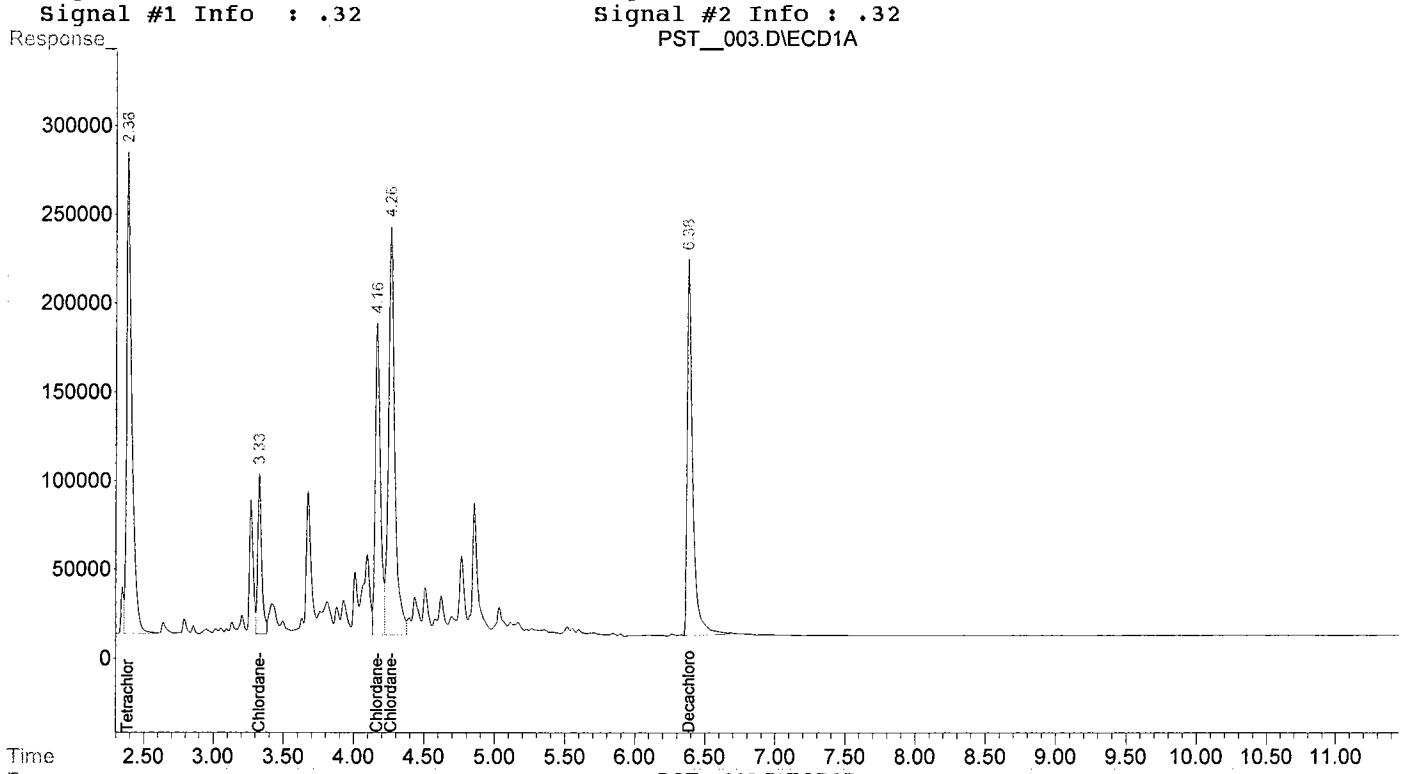
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32

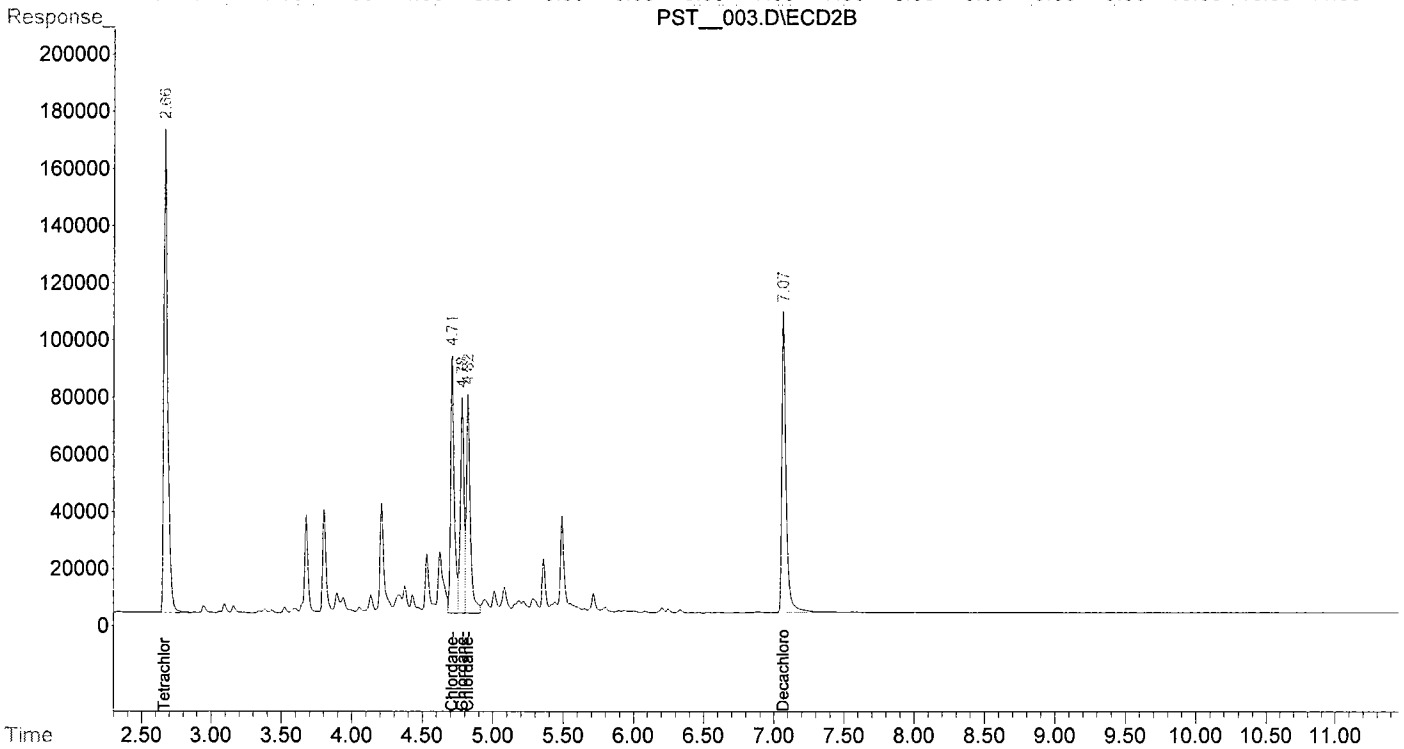
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	2.38	2.67	6854655	3214479	0.175	0.195
Spiked Amount 0.200	Range	60 - 150	Recovery	=	87.50%	97.50%
5) SA Decachlorobiphen	6.38	7.07	5768503	2193915	0.206	0.208
Spiked Amount 0.200	Range	60 - 150	Recovery	=	103.00%	104.00%
Target Compounds						
2) T Chlordane-1	3.33	4.71	1742468	1624356	0.986	0.990
3) T Chlordane-2	4.16	4.78	4484586	1316826	1.007	0.986
4) T Chlordane-3	4.26	4.82	7207758	1521050	0.994	0.958

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__003.D\ECD1A.CH  Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__003.D\ECD2B.CH
Acq On    : 17 Oct 2012   9:58 am                        Operator: JW
Sample    : CHLORDANE, 1.0 ug/mL                         Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:16 2012  Quant Results File: CHL-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\CHL-1016.M (Chemstation Integrator)
Title        : Chlordane - RTX-CLP & CLP-2 10/16/12
Last Update  : Wed Oct 17 14:13:49 2012
Response via : Single Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : RTX-CLPesticides  Signal #2 Phase: RTX-CLP2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__004.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__004.D\ECD2B.CH
Acq On : 17 Oct 2012 10:14 am Operator: JW
Sample : TOXAPHENE, 1.0 ug/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:17 2012 Quant Results File: TOX-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX-1016.M (Chemstation Integrator)
Title : Toxaphene - RTX-CLP & CLP-2 10/16/12
Last Update : Wed Oct 17 14:14:48 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

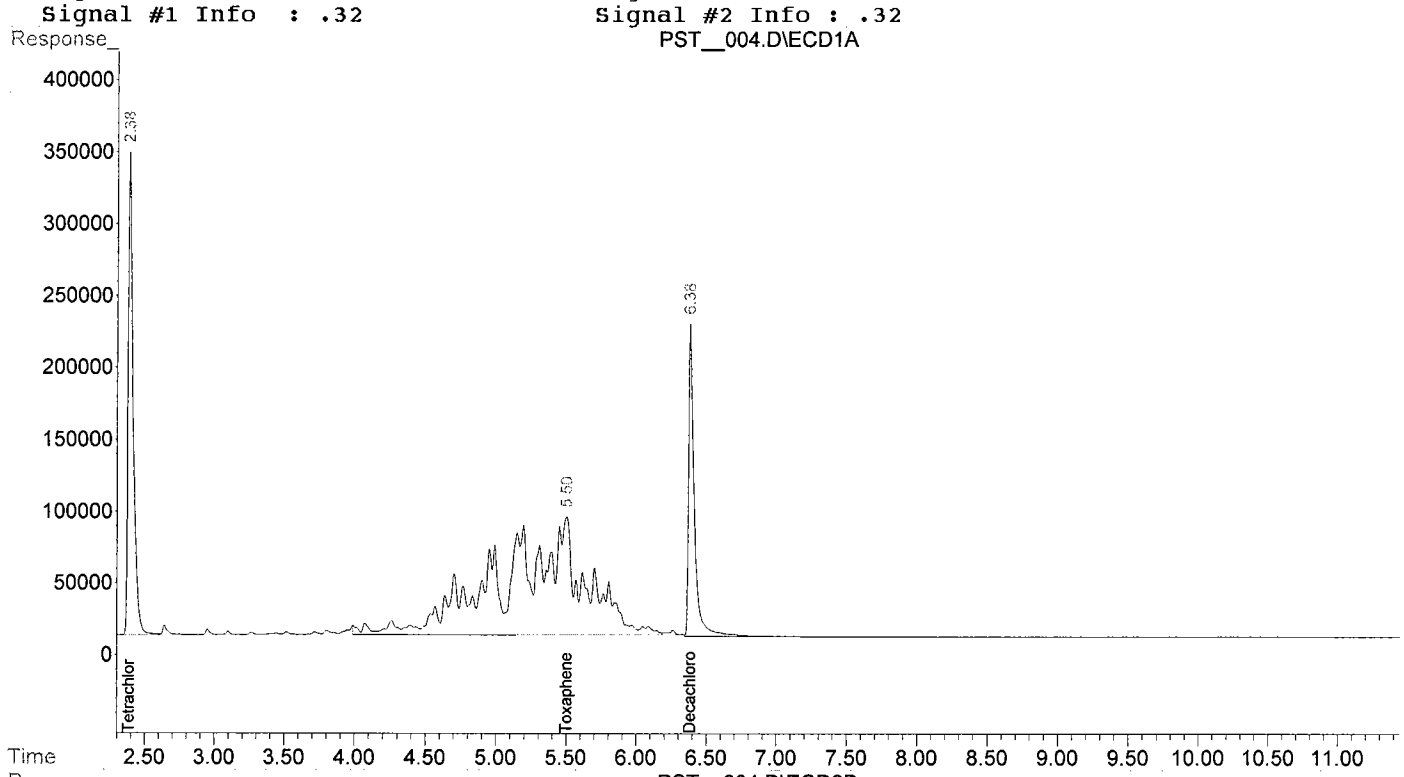
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32

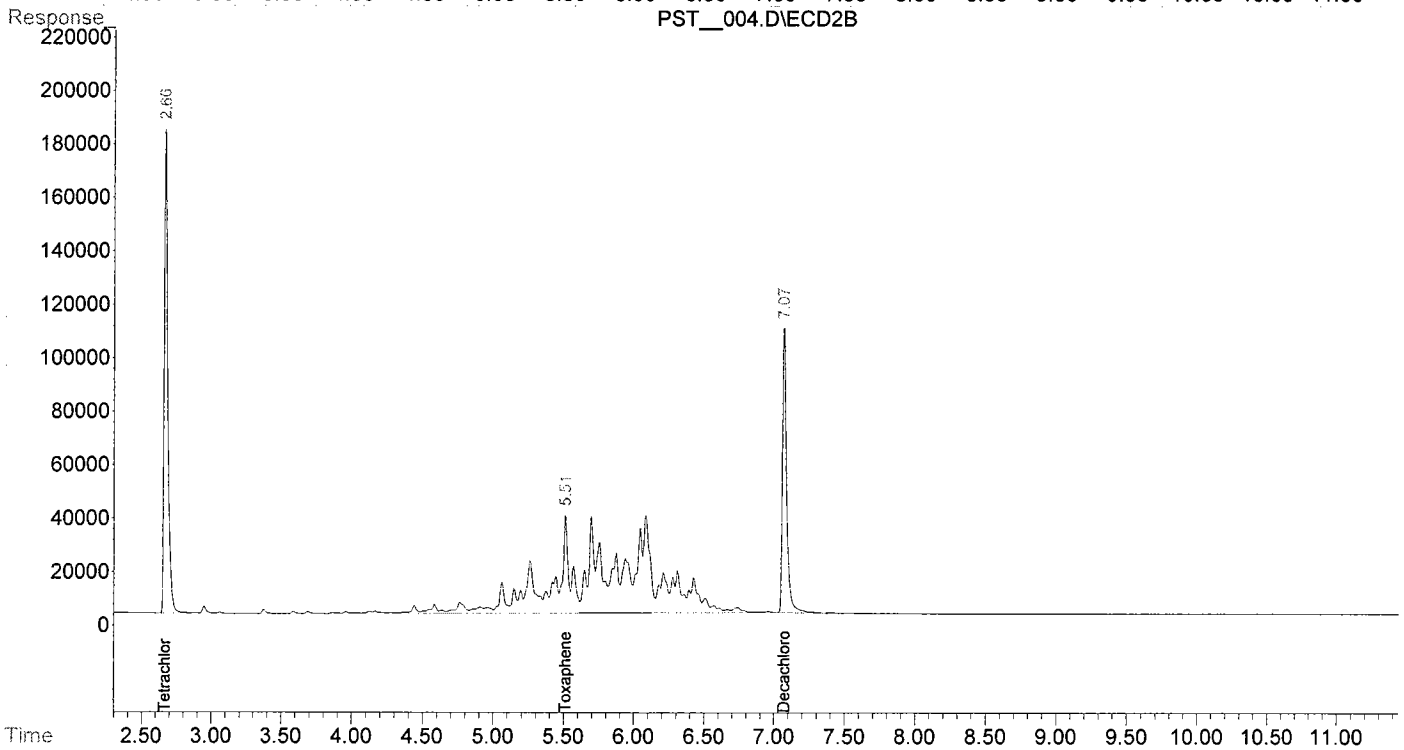
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	2.38	2.67	8504924	3303702	0.215	0.211
Spiked Amount 0.200 Range 60 - 150 Recovery =					107.50%	105.50%
3) SA Decachlorobiphen	6.39	7.07	6148731	2202703	0.197	0.198
Spiked Amount 0.200 Range 60 - 150 Recovery =					98.50%	99.00%
Target Compounds						
2) Toxaphene	5.50	5.51	32236167	11869683	1.002m	1.012m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__004.D\ECD1A.CH  Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__004.D\ECD2B.CH
Acq On    : 17 Oct 2012  10:14 am                    Operator: JW
Sample    : TOXAPHENE, 1.0 ug/mL                     Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121      Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:17 2012  Quant Results File: TOX-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX-1016.M (Chemstation Integrator)
Title        : Toxaphene - RTX-CLP & CLP-2 10/16/12
Last Update  : Wed Oct 17 14:14:48 2012
Response via : Single Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : RTX-CLPesticides  Signal #2 Phase: RTX-CLP2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD2B.CH
Acq On : 17 Oct 2012 12:45 pm Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	46.577	42.837 E3	8.0	96	0.00
2	M	alpha-BHC	66.974	70.675 E3	-5.5	99	0.00
3	M	gamma-BHC (Lindane)	60.170	63.071 E3	-4.8	99	0.00
4	M	beta-BHC	32.567	35.620 E3	-9.4	100	0.00
5	M	delta-BHC	53.971	57.795 E3	-7.1	96	0.00
6	M	Heptachlor	53.991	57.620 E3	-6.7	103	0.00
7	M	Aldrin	53.365	56.003 E3	-4.9	98	0.00
8	M	Heptachlor Epoxide	50.831	51.591 E3	-1.5	98	0.00
9	M	gamma-Chlordane	54.529	55.647 E3	-2.1	99	0.00
10	M	alpha-Chlordane	48.077	51.225 E3	-6.5	98	0.00
11	M	Endosulfan I	59.448	60.825 E3	-2.3	100	0.00
12	M	4,4'-DDE	38.506	36.440 E3	5.4	89	0.00
13	M	Dieldrin	47.133	49.507 E3	-5.0	97	0.00
14	M	Endrin	41.882	42.585 E3	-1.7	97	0.00
15	M	4,4'-DDD	35.468	37.937 E3	-7.0	94	0.00
16	M	Endosulfan II	37.813	35.167 E3	7.0	98	0.00
17	M	4,4'-DDT	36.732	39.919 E3	-8.7	102	0.00
18	M	Endrin Aldehyde	30.086	32.922 E3	-9.4	90	0.00
19	M	Methoxychlor	17.350	18.977 E3	-9.4	100	0.00
20	M	Endosulfan sulfate	36.560	37.301 E3	-2.0	95	0.00
21	M	Endrin Ketone	45.206	45.894 E3	-1.5	94	0.00
22	SA	Decachlorobiphenyl	36.549	34.115 E3	6.7	90	0.00

Signal #2

1	SA	Tetrachloro-m-xylene	18.461	17.519 E3	5.1	100	0.00
2	M	alpha-BHC	24.597	27.439 E3	-11.6	100	0.00
3	M	gamma-BHC (Lindane)	22.600	25.485 E3	-12.8	101	0.00
4	M	beta-BHC	12.465	13.381 E3	-7.3	99	0.00
5	M	delta-BHC	18.722	21.056 E3	-12.5	96	0.00
6	M	Heptachlor	19.517	21.273 E3	-9.0	100	0.00
7	M	Aldrin	21.021	23.096 E3	-9.9	101	0.00
8	M	Heptachlor Epoxide	20.141	20.564 E3	-2.1	98	0.00
9	M	gamma-Chlordane	21.055	21.640 E3	-2.8	99	0.00
10	M	alpha-Chlordane	18.915	19.262 E3	-1.8	97	0.00
11	M	Endosulfan I	19.916	20.453 E3	-2.7	98	0.00
12	M	4,4'-DDE	18.199	19.414 E3	-6.7	97	0.00
13	M	Dieldrin	18.933	20.211 E3	-6.8	97	0.00
14	M	Endrin	15.938	16.469 E3	-3.3	96	0.00
15	M	4,4'-DDD	12.870	13.575 E3	-5.5	97	0.00
16	M	Endosulfan II	14.727	14.448 E3	1.9	97	0.00
17	M	4,4'-DDT	13.587	14.176 E3	-4.3	95	0.00
18	M	Endrin Aldehyde	13.040	14.077 E3	-8.0	91	0.00
19	M	Methoxychlor	6.307	7.050 E3	-11.8	94	0.00
20	M	Endosulfan sulfate	14.086	14.614 E3	-3.7	95	0.00
21	M	Endrin Ketone	16.371	17.470 E3	-6.7	95	0.00
22	SA	Decachlorobiphenyl	13.610	12.658 E3	7.0	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PST__012.D P3-1016.M Wed Oct 17 14:38:37 2012

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD2B.CH
Acq On : 17 Oct 2012 12:45 pm Operator: JW
Sample : PEST MIX AB #3, 50.0 ng/mL Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:38 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 09:24:25 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

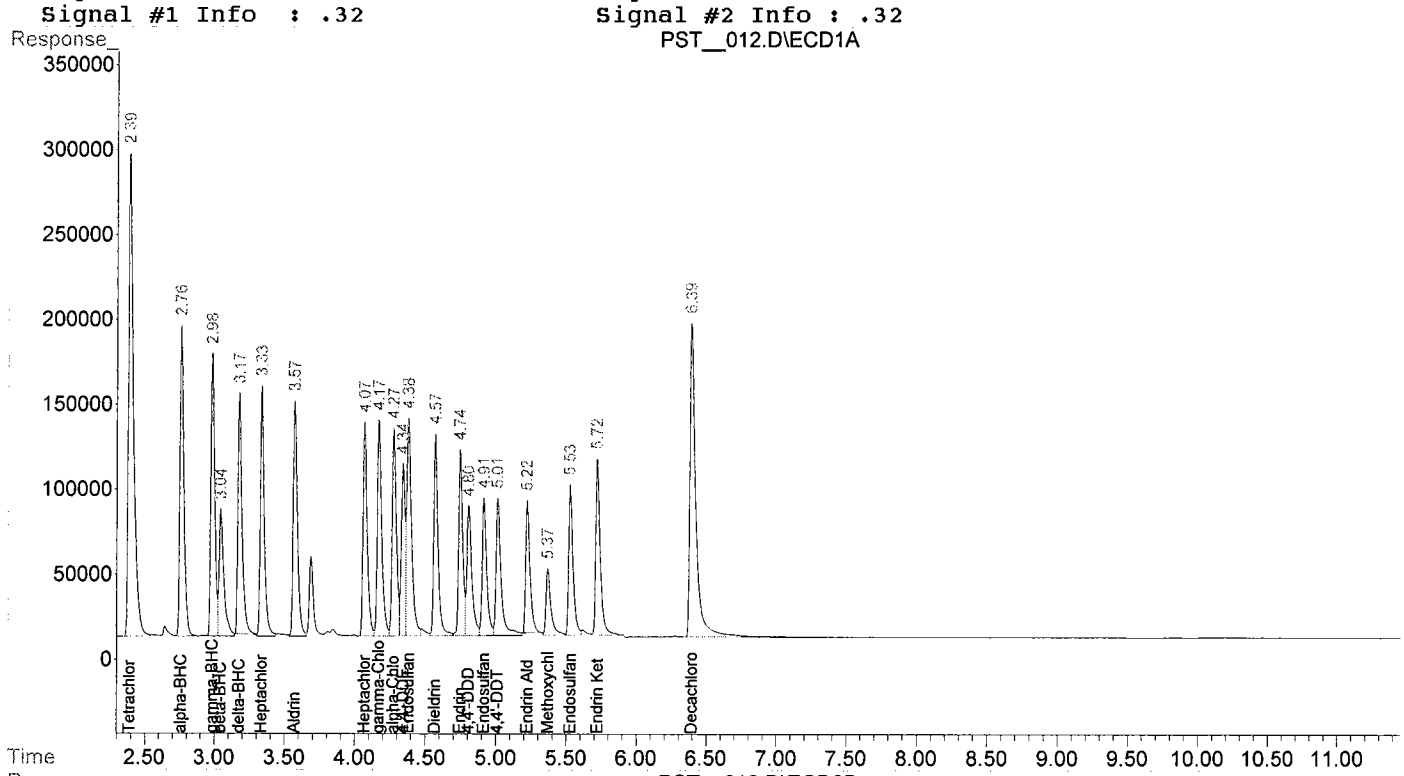
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

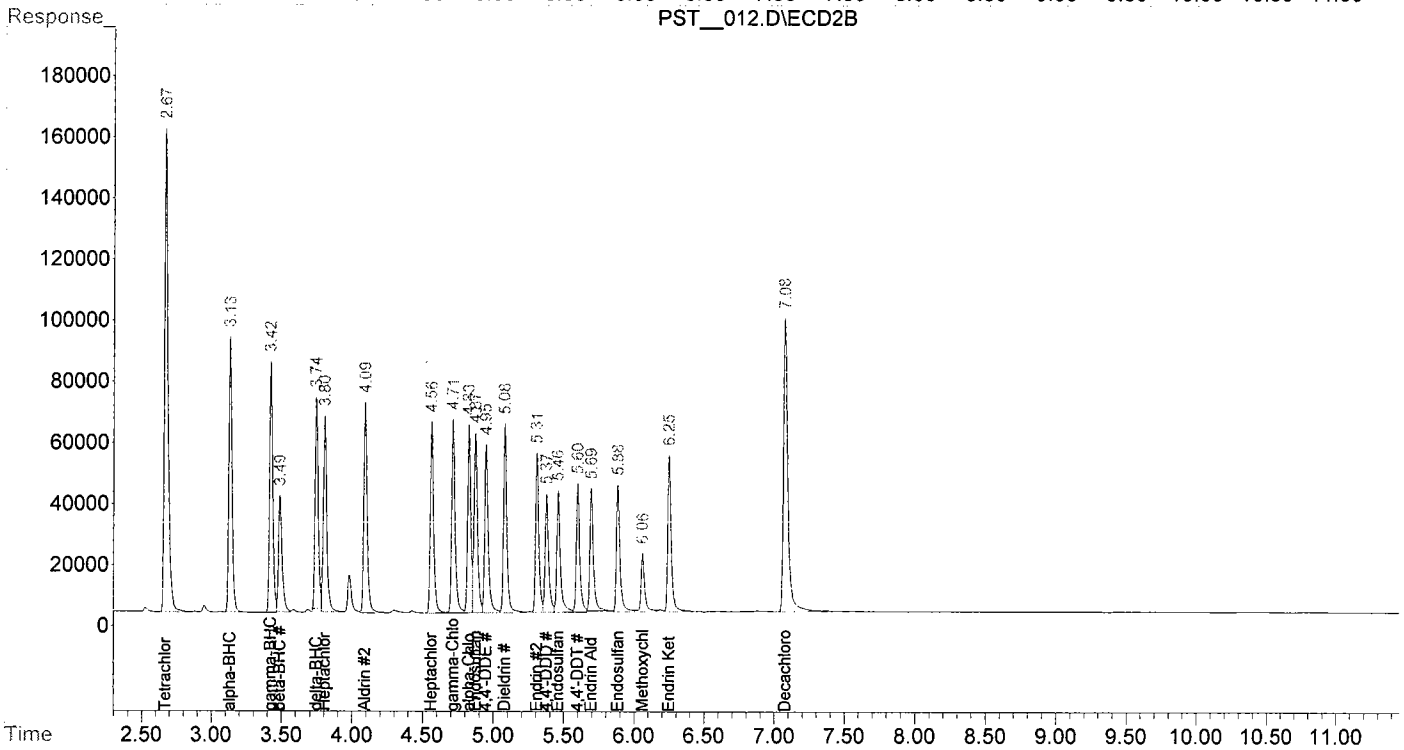
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.39	2.67	6853967	2803068	147.153	151.840
Spiked Amount	200.000	Range	30 - 150	Recovery	=	73.58%	75.92%
22) SA	Decachlorobiphen	6.39	7.08	5458354	2025282	149.044	148.814
Spiked Amount	200.000	Range	30 - 150	Recovery	=	74.52%	74.41%
	Target Compounds						
2) M	alpha-BHC	2.76	3.13	3533730	1371943	52.763	55.778m
3) M	gamma-BHC (Linda	2.98	3.42	3153546	1274243	52.410	56.383
4) M	beta-BHC	3.04	3.49	1781005	669075	54.687	53.675m
5) M	delta-BHC	3.17	3.74	2889756	1052810	53.543m	56.235m
6) M	Heptachlor	3.34	3.80	2881005	1063630	53.361	54.499m
7) M	Aldrin	3.57	4.09	2800148	1154802	52.472	54.937
8) M	Heptachlor Epoxi	4.07	4.56	2579532	1028188	50.747	51.049
9) M	gamma-Chlordane	4.17	4.71	2782347	1082014	51.025	51.390
10) M	alpha-Chlordane	4.28	4.83	2561227	963116	53.273	50.919
11) M	Endosulfan I	4.38	4.87	3041236	1022652	51.158	51.347
12) M	4,4'-DDE	4.34	4.95	1821978	970714	47.317	53.339
13) M	Dieldrin	4.57	5.08	2475332	1010549	52.518	53.375
14) M	Endrin	4.75	5.31	2129235	823438	50.839	51.664
15) M	4,4'-DDD	4.81	5.38	1896851	678731	53.481	52.736
16) M	Endosulfan II	4.91	5.46	1758367	722418	46.501	49.054
17) M	4,4'-DDT	5.01	5.60	1995960	708825	54.339	52.168
18) M	Endrin Aldehyde	5.22	5.69	1646085	703855	54.713m	53.975m
19) M	Methoxychlor	5.37	6.06	948829	352503	53.389	53.937
20) M	Endosulfan sulfa	5.53	5.88	1865036	730697	50.734	51.859
21) M	Endrin Ketone	5.72	6.25	2294703	873514	49.072	52.920

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD1A.CH  Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__012.D\ECD2B.CH
Acq On    : 17 Oct 2012  12:45 pm                        Operator: JW
Sample    : PEST MIX AB #3, 50.0 ng/mL                   Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 5.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:38 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 09:24:25 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





FORM I

METHOD BLANK DATA SHEET
EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.		SDG:	12J0486	
Client:	Langan Engineering & Environmental Services (NJ)		Project:	100242701	
Matrix:	Soil	Laboratory ID:	BJ20723-BLK1	File ID:	PST_005.D
Prepared:	10/16/12 13:45	Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL
Analyzed:	10/17/12 10:38	Instrument:	GC ECD #3		
Batch:	BJ20723	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
72-54-8	4,4'-DDD	0.330	U
72-55-9	4,4'-DDE	0.330	U
50-29-3	4,4'-DDT	0.330	U
309-00-2	Aldrin	0.330	U
319-84-6	alpha-BHC	0.330	U
319-85-7	beta-BHC	0.330	U
5103-74-2	gamma-Chlordane	0.330	U
319-86-8	delta-BHC	0.330	U
60-57-1	Dieldrin	0.330	U
959-98-8	Endosulfan I	0.330	U
33213-65-9	Endosulfan II	0.330	U
1031-07-8	Endosulfan sulfate	0.330	U
72-20-8	Endrin	0.330	U
7421-93-4	Endrin aldehyde	0.330	U
53494-70-5	Endrin ketone	0.330	U
58-89-9	gamma-BHC (Lindane)	0.330	U
76-44-8	Heptachlor	0.330	U
1024-57-3	Heptachlor epoxide	0.330	U
72-43-5	Methoxychlor	1.65	U
5103-71-9	alpha-Chlordane	0.330	U
8001-35-2	Toxaphene	16.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	67.0	78.2	117	30 - 150	
Tetrachloro-m-xylene	67.0	65.9	98.4	30 - 150	

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__005.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__005.D\ECD2B.CH
Acq On : 17 Oct 2012 10:38 am Operator: JW
Sample : BJ20723-BLK1 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:17 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

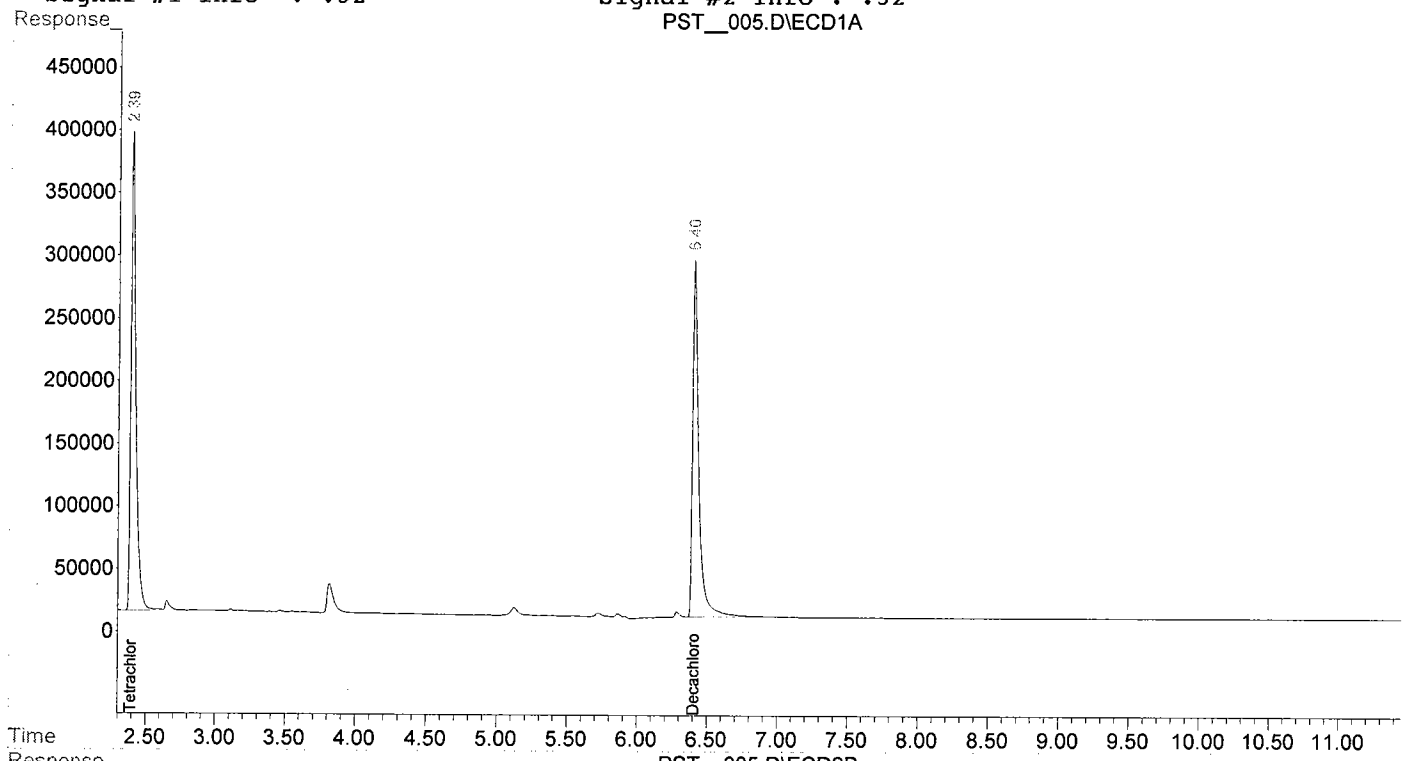
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

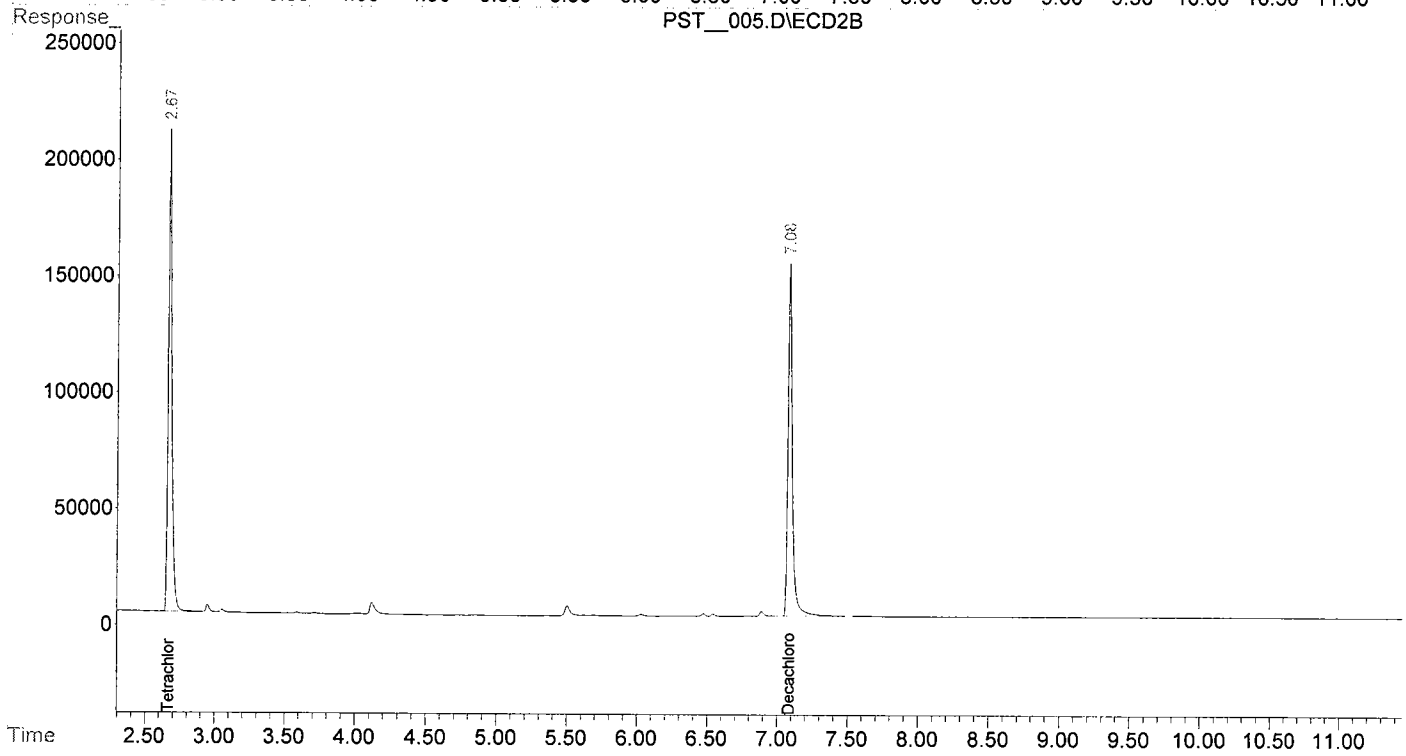
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	2.39	2.67	9215040	3659774	197.845	198.247
Spiked Amount 200.000	Range	30 - 150	Recovery	=	98.92%	99.12%
22) SA Decachlorobiphen	6.40f	7.09	8575072	3273506	234.618m	240.531
Spiked Amount 200.000	Range	30 - 150	Recovery	=	117.31%	120.27%
Target Compounds						
2) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) M gamma-BHC (Linda	0.00	0.00	0	0	N.D.	N.D.
4) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M Heptachlor	0.00	0.00	0	0	N.D.	N.D.
7) M Aldrin	0.00	0.00	0	0	N.D. d	N.D. d
8) M Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14) M Endrin	0.00	0.00	0	0	N.D.	N.D.
15) M 4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16) M Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17) M 4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18) M Endrin Aldehyde	0.00	0.00	0	0	N.D. d	N.D. d
19) M Methoxychlor	0.00	0.00	0	0	N.D. d	N.D. d
20) M Endosulfan sulfa	0.00	0.00	0	0	N.D.	N.D.
21) M Endrin Ketone	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__005.D\ECD1A.CH  Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__005.D\ECD2B.CH
Acq On    : 17 Oct 2012  10:38 am                    Operator: JW
Sample    : BJ20723-BLK1                             Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121      Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:17 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





FORM III

LCS / LCS DUPLICATE RECOVERY

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-BS1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
4,4'-DDD	33.3	34.6	104	40 - 140
4,4'-DDE	33.3	31.2	93.7	40 - 140
4,4'-DDT	33.3	34.8	104	40 - 140
Aldrin	33.3	29.6	88.9	40 - 140
alpha-BHC	33.3	28.8	86.4	40 - 140
beta-BHC	33.3	32.2	96.5	40 - 140
gamma-Chlordane	33.3	31.2	93.6	40 - 140
delta-BHC	33.3	31.0	93.1	40 - 140
Dieldrin	33.3	32.8	98.5	40 - 140
Endosulfan I	33.3	31.5	94.6	40 - 140
Endosulfan II	33.3	37.9	114	40 - 140
Endosulfan sulfate	33.3	33.7	101	40 - 140
Endrin	33.3	30.1	90.3	40 - 140
Endrin aldehyde	33.3	28.6	85.9	40 - 140
Endrin ketone	33.3	32.1	96.4	40 - 140
gamma-BHC (Lindane)	33.3	29.3	88.0	40 - 140
Heptachlor	33.3	29.7	89.0	40 - 140
Heptachlor epoxide	33.3	30.5	91.5	40 - 140
Methoxychlor	33.3	33.5	101	40 - 140
alpha-Chlordane	33.3	32.6	97.8	40 - 140

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__006.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__006.D\ECD2B.CH
Acq On : 17 Oct 2012 10:53 am Operator: JW
Sample : BJ20723-BS1 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:18 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

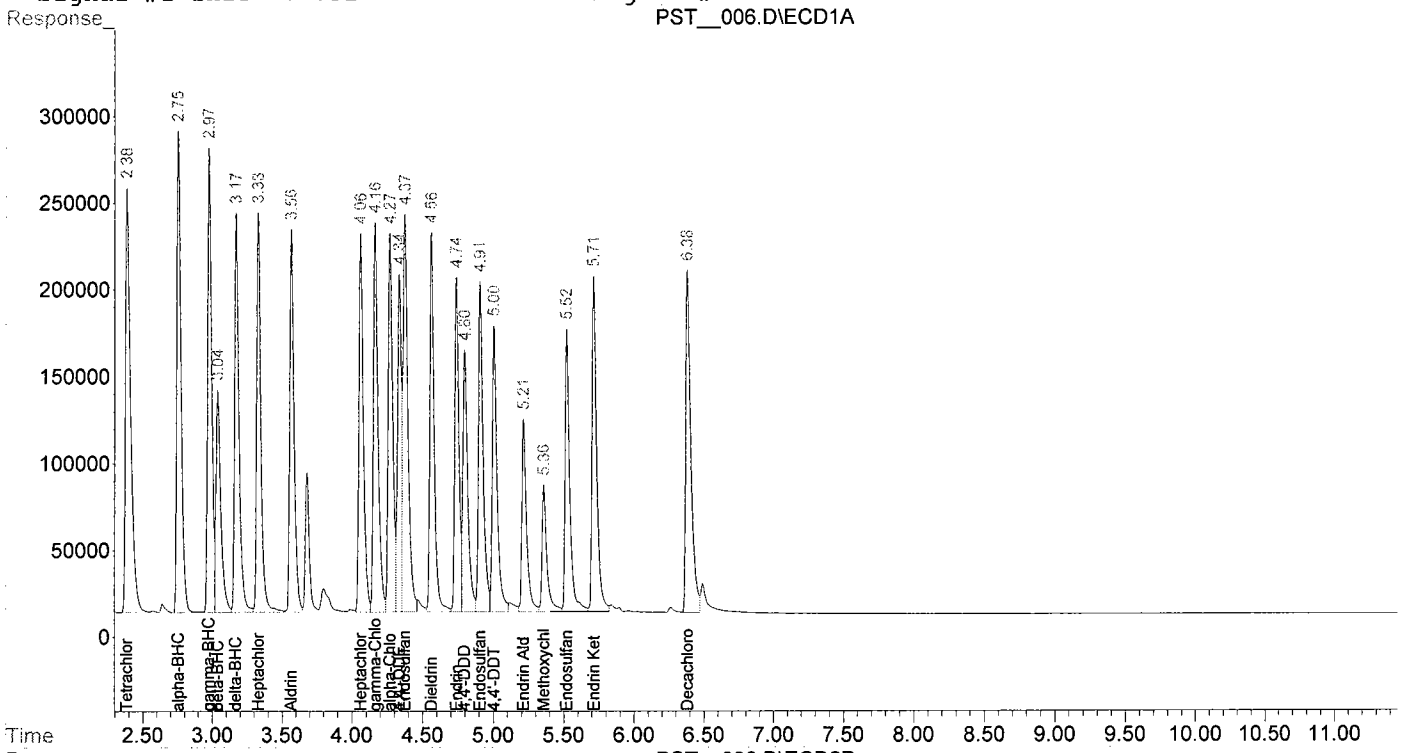
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

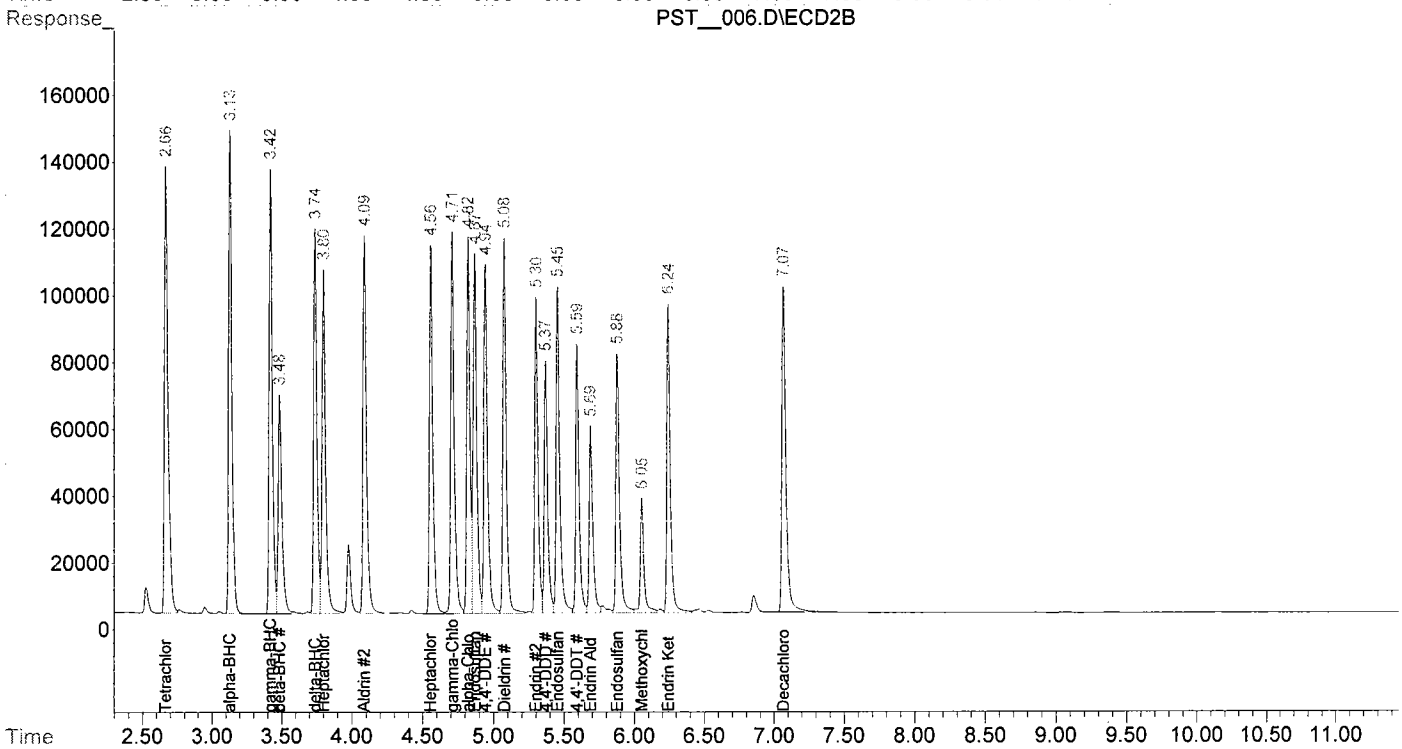
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.38	2.67	6192943	2451766	132.961	132.810
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	66.48%	66.41%
22) SA	Decachlorobiphen	6.38	7.07	4989677	2001654	136.520	147.077
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	68.26%	73.54%
	Target Compounds						
2) M	alpha-BHC	2.75	3.13	5789469	2312745	86.444	94.027
3) M	gamma-BHC (Linda	2.98	3.42	5294826	2145930	87.997	94.954
4) M	beta-BHC	3.04	3.49	3141702	1209852	96.468	97.057
5) M	delta-BHC	3.17	3.74	5027273	1838913	93.148	98.223
6) M	Heptachlor	3.33	3.80	4806309	1810539	89.021	92.770
7) M	Aldrin	3.57	4.09	4745839	1939747	88.932	92.278
8) M	Heptachlor Epoxi	4.06	4.56	4649712	1841538	91.474	91.432
9) M	gamma-Chlordane	4.16	4.71	5105046	1975069	93.621	93.805
10) M	alpha-Chlordane	4.27	4.82	4699884	1761426	97.757	93.124
11) M	Endosulfan I	4.38	4.87	5622764	1928549	94.583	96.832
12) M	4,4'-DDE	4.34	4.94	3606121	1840148	93.651	101.113
13) M	Dieldrin	4.56	5.08	4643154	1859666	98.511	98.224
14) M	Endrin	4.74	5.30	3783208	1503080	90.331	94.306
15) M	4,4'-DDD	4.80	5.37	3685041	1277176	103.899	99.234
16) M	Endosulfan II	4.91	5.45	4295392	1723005	113.595	116.995
17) M	4,4'-DDT	5.01	5.59	3835139	1354124	104.410	99.662
18) M	Endrin Aldehyde	5.21	5.69	2585735	991665	85.945	76.046
19) M	Methoxychlor	5.36	6.05	1744663	623327	100.556	98.838
20) M	Endosulfan sulfa	5.52	5.88	3695885	1379387	101.091	97.925
21) M	Endrin Ketone	5.71	6.24	4359315	1581320	96.433	96.596

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__006.D\ECD1A.CH  Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__006.D\ECD2B.CH
Acq On    : 17 Oct 2012  10:53 am                        Operator: JW
Sample    : BJ20723-BS1                                  Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 1.00
IntFile Signal #1: EVENTS.E      IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:18 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA SW 846-8081

Langan #049

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-MS1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

Source Sample Name: Langan #049

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
4,4'-DDD	37.9	ND	26.9	71.1	30 - 150
4,4'-DDE	37.9	ND	22.8	60.1	30 - 150
4,4'-DDT	37.9	ND	26.3	69.5	30 - 150
Aldrin	37.9	ND	25.6	67.6	30 - 150
alpha-BHC	37.9	ND	25.8	68.1	30 - 150
beta-BHC	37.9	ND	25.0	65.9	30 - 150
gamma-Chlordane	37.9	ND	21.3	56.2	30 - 150
delta-BHC	37.9	ND	24.3	64.2	30 - 150
Dieldrin	37.9	ND	24.4	64.5	30 - 150
Endosulfan I	37.9	ND	23.8	62.9	30 - 150
Endosulfan II	37.9	ND	29.4	77.7	30 - 150
Endosulfan sulfate	37.9	ND	21.5	56.7	30 - 150
Endrin	37.9	ND	26.1	68.8	30 - 150
Endrin aldehyde	37.9	ND	24.8	65.5	30 - 150
Endrin ketone	37.9	ND	26.0	68.6	30 - 150
gamma-BHC (Lindane)	37.9	ND	27.6	72.9	30 - 150
Heptachlor	37.9	ND	28.3	74.7	30 - 150
Heptachlor epoxide	37.9	ND	26.8	70.8	30 - 150
Methoxychlor	37.9	ND	28.0	73.9	30 - 150
alpha-Chlordane	37.9	ND	23.7	62.5	30 - 150

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4,4'-DDD	37.9	30.1	79.5	11.1	30	30 - 150
4,4'-DDE	37.9	26.1	68.8	13.6	30	30 - 150
4,4'-DDT	37.9	27.8	73.4	5.42	30	30 - 150
Aldrin	37.9	29.6	78.2	14.5	30	30 - 150
alpha-BHC	37.9	31.0	81.8	18.3	30	30 - 150
beta-BHC	37.9	26.0	68.7	4.24	30	30 - 150
gamma-Chlordane	37.9	24.7	65.2	14.8	30	30 - 150
delta-BHC	37.9	28.0	73.9	14.0	30	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Langan #049

EPA SW 846-8081

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20723	Laboratory ID:	BJ20723-MSD1
Preparation:	EPA 3550B	Initial/Final:	30 g / 10 mL

Source Sample Name: Langan #049

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dieldrin	37.9	26.8	70.7	9.09	30	30 - 150
Endosulfan I	37.9	26.4	69.8	10.3	30	30 - 150
Endosulfan II	37.9	29.2	77.2	0.672	30	30 - 150
Endosulfan sulfate	37.9	25.8	68.2	18.4	30	30 - 150
Endrin	37.9	29.2	77.1	11.4	30	30 - 150
Endrin aldehyde	37.9	28.6	75.4	14.1	30	30 - 150
Endrin ketone	37.9	25.7	67.8	1.09	30	30 - 150
gamma-BHC (Lindane)	37.9	30.9	81.5	11.1	30	30 - 150
Heptachlor	37.9	32.5	85.8	13.8	30	30 - 150
Heptachlor epoxide	37.9	30.6	80.7	13.0	30	30 - 150
Methoxychlor	37.9	28.7	75.9	2.66	30	30 - 150
alpha-Chlordane	37.9	25.8	68.2	8.61	30	30 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__009.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__009.D\ECD2B.CH
Acq On : 17 Oct 2012 11:39 am Operator: JW
Sample : BJ20723-MS1 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:33 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 09:24:25 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

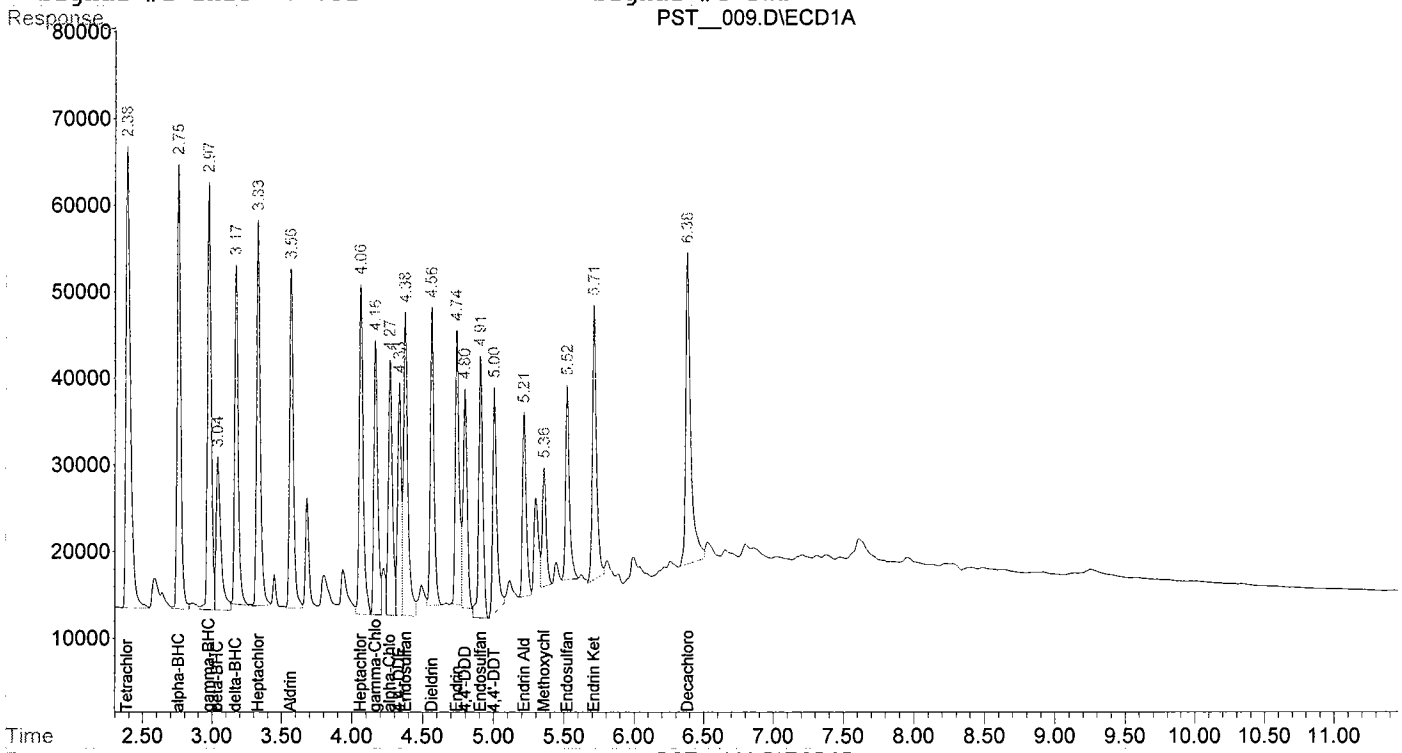
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

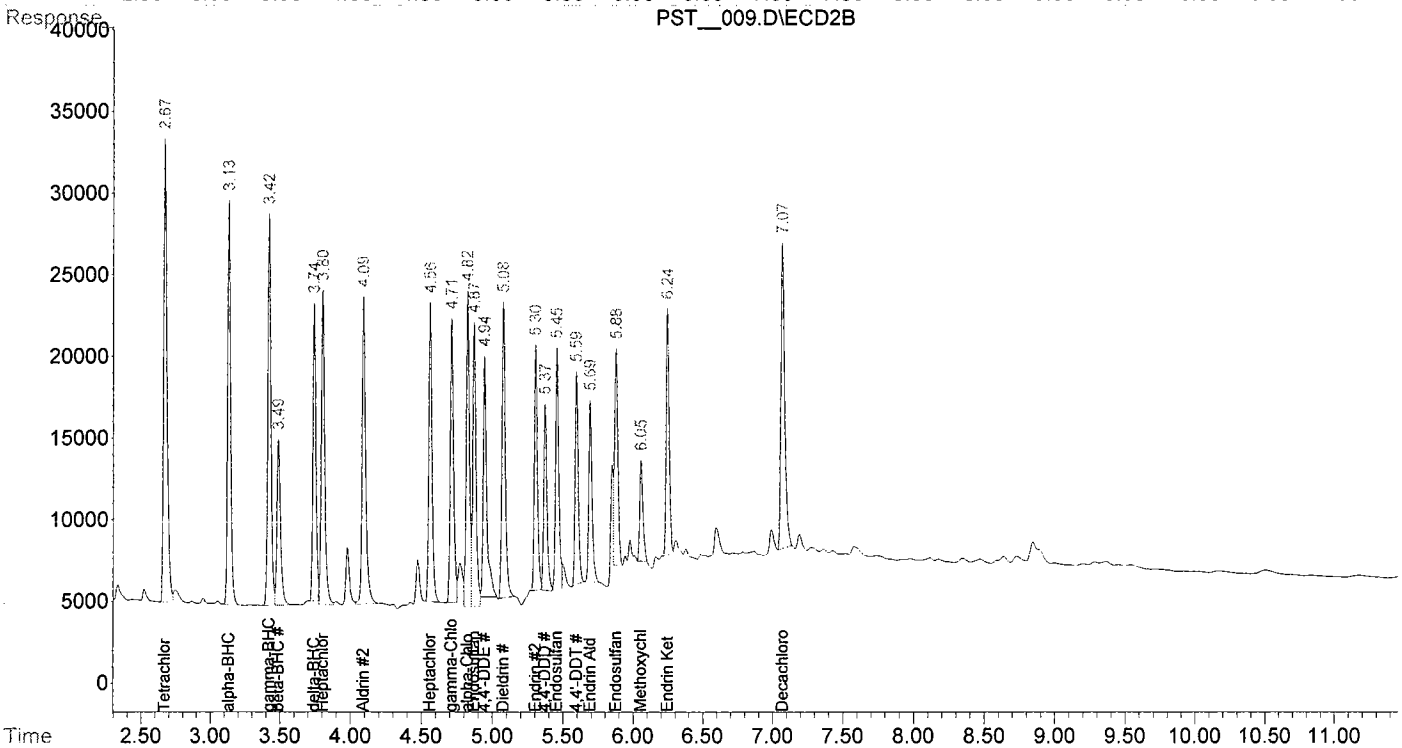
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.39	2.67	1186531	480039	25.475	26.003
Spiked Amount	200.000	Range	30 - 150	Recovery	=	12.74%#	13.00%#
22) SA	Decachlorobiphen	6.38	7.07	889706	346554	24.294m	25.464m
Spiked Amount	200.000	Range	30 - 150	Recovery	=	12.15%#	12.73%#
	Target Compounds						
2) M	alpha-BHC	2.75	3.13	912064	361843	13.618	14.711
3) M	gamma-BHC (Linda	2.98	3.42	876957	369309	14.575	16.341
4) M	beta-BHC	3.04	3.49	429111	180238	13.176	14.459
5) M	delta-BHC	3.17	3.74	693246	267102	12.845m	14.267m
6) M	Heptachlor	3.33	3.80	807148	320924	14.950m	16.444
7) M	Aldrin	3.56	4.09	721713	319971	13.524m	15.222
8) M	Heptachlor Epoxi	4.06	4.56	720266	279628	14.170	13.883m
9) M	gamma-Chlordane	4.16	4.71	612981	282254	11.241	13.406m
10) M	alpha-Chlordane	4.27	4.83	601264	303529	12.506	16.047 #
11) M	Endosulfan I	4.38	4.87	748197	289296	12.586	14.526
12) M	4,4'-DDE	4.34	4.94	462771	252592	12.018	13.879m
13) M	Dieldrin	4.56	5.08	608213	292958	12.904m	15.474m
14) M	Endrin	4.74	5.30	576328	221561	13.761m	13.901m
15) M	4,4'-DDD	4.80	5.37	504454	178552	14.223m	13.873m
16) M	Endosulfan II	4.91	5.45	587450	232104	15.536	15.760m
17) M	4,4'-DDT	5.00	5.59	510789	195267	13.906m	14.371m
18) M	Endrin Aldehyde	5.21	5.69	394004	181894	13.096m	13.949m
19) M	Methoxychlor	5.36	6.05	262559	99076	14.774m	15.160m
20) M	Endosulfan sulfa	5.52	5.88	416720	215949	11.336m	15.326m#
21) M	Endrin Ketone	5.71	6.24	641103	224269	13.710m	13.587m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__009.D\ECD1A.CH  Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__009.D\ECD2B.CH
Acq On    : 17 Oct 2012  11:39 am                        Operator: JW
Sample    : BJ20723-MS1                                  Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 5.00
IntFile Signal #1: EVENTS.E      IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:33 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 09:24:25 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.      : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\101712\PST__010.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__010.D\ECD2B.CH
Acq On : 17 Oct 2012 11:54 am Operator: JW
Sample : BJ20723-MSD1 Inst : GC ECD #3
Misc : QBPEST3-101712A STDS001 PH-111, 121 Multiplr: 5.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:36 2012 Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Oct 17 13:55:06 2012
Response via : Initial Calibration
DataAcq Meth : PEST3.M

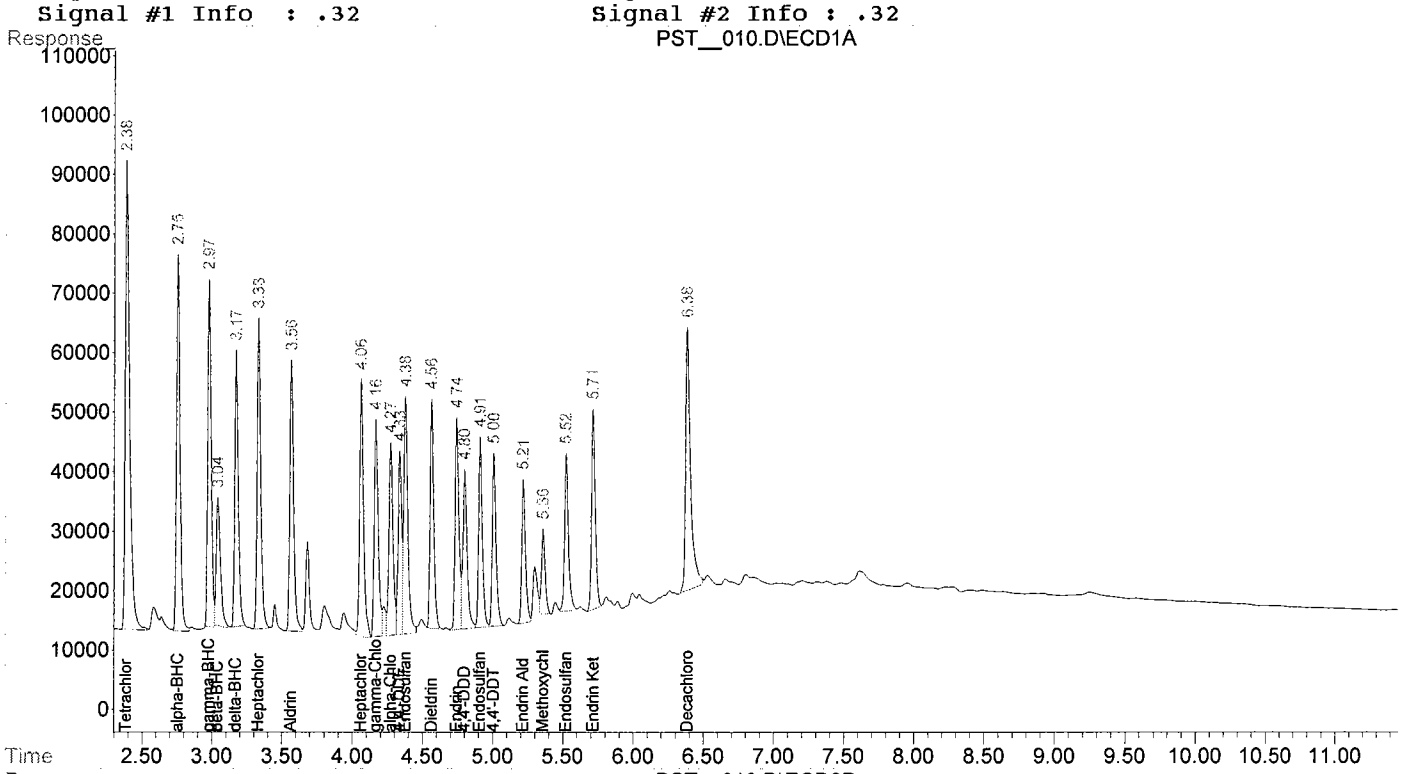
Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info : .32 Signal #2 Info : .32

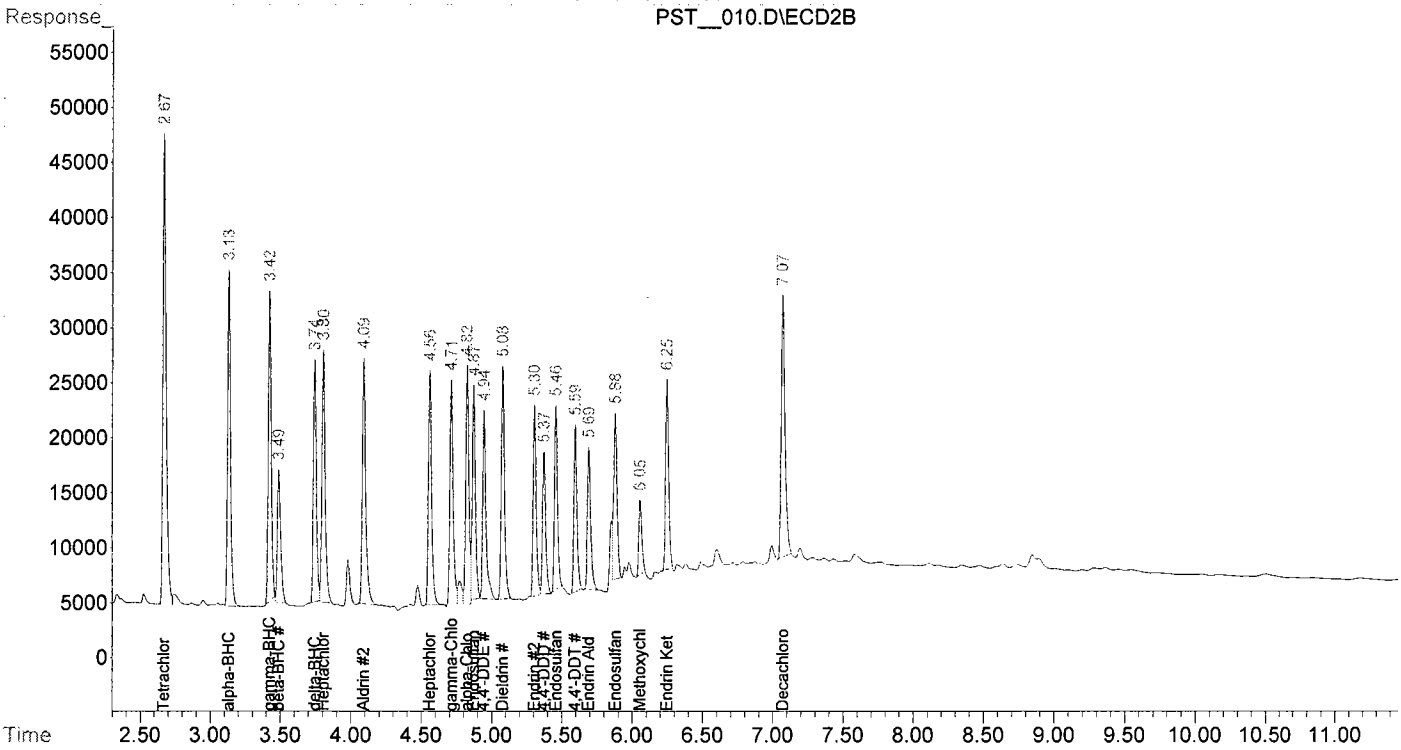
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	2.39	2.67	1689638	699636	36.276	37.899
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	18.14%#	18.95%#
22) SA	Decachlorobiphen	6.38	7.07	1065234	437509	29.145m	32.147m
	Spiked Amount 200.000	Range	30 - 150	Recovery	=	14.57%#	16.07%#
	Target Compounds						
2) M	alpha-BHC	2.75	3.13	1095400	440419	16.356	17.906
3) M	gamma-BHC (Linda	2.97	3.42	980550	405754	16.296m	17.954m
4) M	beta-BHC	3.04	3.49	447703	198677	13.747m	15.938m
5) M	delta-BHC	3.17	3.74	797331	318230	14.773m	16.998m
6) M	Heptachlor	3.33	3.80	926532	361020	17.161m	18.498m
7) M	Aldrin	3.56	4.09	834607	366405	15.640m	17.431m
8) M	Heptachlor Epoxi	4.06	4.56	820139	328189	16.135	16.295m
9) M	gamma-Chlordane	4.16	4.71	711261	336984	13.044	16.005
10) M	alpha-Chlordane	4.27	4.83	655360	335857	13.631	17.756 #
11) M	Endosulfan I	4.38	4.87	829290	306213	13.950	15.375m
12) M	4,4'-DDE	4.34	4.94	530022	281341	13.765	15.459m
13) M	Dieldrin	4.56	5.08	666141	334374	14.133m	17.661m
14) M	Endrin	4.74	5.30	645916	258163	15.422	16.198m
15) M	4,4'-DDD	4.80	5.37	563767	198640	15.895	15.434m
16) M	Endosulfan II	4.91	5.46	583522	246971	15.432	16.770m
17) M	4,4'-DDT	5.01	5.59	539226	226905	14.680	16.700m
18) M	Endrin Aldehyde	5.22	5.69	453563	207289	15.076	15.896m
19) M	Methoxychlor	5.36	6.05	263240	102076	15.172m	16.186m
20) M	Endosulfan sulfa	5.52	5.88	498567	241905	13.637m	17.173m#
21) M	Endrin Ketone	5.71	6.25	613039	260460	13.561m	15.910m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\101712\PST__010.D\ECD1A.CH  Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\101712\PST__010.D\ECD2B.CH
Acq On    : 17 Oct 2012  11:54 am                        Operator: JW
Sample    : BJ20723-MSD1                                 Inst    : GC ECD #3
Misc      : QBPEST3-101712A STDS001 PH-111, 121          Multiplr: 5.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E
Quant Time: Oct 17 14:36 2012  Quant Results File: P3-1016.RES

Quant Method : C:\HPCHEM\1\METHODS\P3-1016.M (Chemstation Integrator)
Title        : 10/16/12 - Stx-CLP & CLP2 - single tower,dual det
Last Update  : Wed Oct 17 13:55:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : PEST3.M

Volume Inj.     : 1 uL
Signal #1 Phase : Stx-CLPesticides  Signal #2 Phase: Stx-CLPesticides2
Signal #1 Info  : .32               Signal #2 Info : .32
```





FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA SW 846-8081

Laboratory: York Analytical Laboratories, Inc.

SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ)

Project: 100242701

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	BJ20723-BLK1	PST_005.D	10/17/12 10:38
LCS	BJ20723-BS1	PST_006.D	10/17/12 10:53
Langan #048	12J0486-01	PST_007.D	10/17/12 11:09
Langan #049	12J0486-02	PST_008.D	10/17/12 11:24
Langan #049	BJ20723-MS1	PST_009.D	10/17/12 11:39
Langan #049	BJ20723-MSD1	PST_010.D	10/17/12 11:54

HOLDING TIME SUMMARY

EPA SW 846-8081

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Langan #048	10/12/12 15:00	10/12/12 18:00	10/16/12 13:45	3.95	14.00	10/17/12 11:09	0.89	40.00	
Langan #049	10/12/12 15:00	10/12/12 18:00	10/16/12 13:45	3.95	14.00	10/17/12 11:24	0.90	40.00	

PREPARATION BENCH SHEET

BJ20723

York Analytical Laboratories, Inc.

Printed: 10/19/2012 11:40:13AM

Matrix: Soil

Surrogate used: Y12E068

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
12J0447-52	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-53	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-54	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-55	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-56	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-57	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-58	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-59	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-70	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0447-72	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	5 day firm
12J0463-01	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	0.5	10				10	EPA 3550B	5 day firm
12J0463-02	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	0.7	10				10	EPA 3550B	5 day firm
12J0463-03	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	1	10				10	EPA 3550B	5 day firm
12J0463-04	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	1	10				10	EPA 3550B	5 day firm
12J0463-05	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	1	10				10	EPA 3550B	5 day firm
12J0486-01	Pesticides, 8081 target list	10/16/2012 13:4	CC	30	10				10	EPA 3550B	
12J0486-02	Pesticides, 8081 target list	10/16/2012 13:4	CC	30	10				10	EPA 3550B	
12J0486-02	Polychlorinated Biphenyls (	10/16/2012 07:2	CC	30	10				10	EPA 3550B	Added for BatchQC in: BJ20723
12J0496-01	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	
12J0518-02	Pesticides, 8081 target list	10/16/2012 13:4	CC	30	10				10	EPA 3550B	
12J0518-04	Pesticides, 8081 target list	10/16/2012 13:4	CC	30	10				10	EPA 3550B	Added for BatchQC in: BJ20723
12J0518-04	Polychlorinated Biphenyls (	10/16/2012 13:4	CC	30	10				10	EPA 3550B	
BJ20723-BLK1	QC	10/16/2012 13:4	CC	30	10				10	EPA 3550B	

PREPARATION BENCH SHEET

BJ20723

York Analytical Laboratories, Inc.

Printed: 10/19/2012 11:40:13AM

Matrix: Soil

Surrogate used: Y12E068

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
BJ20723-BS1	QC	10/16/2012 13:4	CC	30	10	Y12I026		25	10	EPA 3550B	
BJ20723-BS2	QC	10/16/2012 07:2	CC	30	10	Y12J004		100	10	EPA 3550B	
BJ20723-MS1	QC	10/16/2012 07:2	CC	30	10	Y12I026	12J0486-02	25	10	EPA 3550B	
BJ20723-MS2	QC	10/16/2012 07:2	CC	30	10	Y12J004	12J0518-04	100	10	EPA 3550B	
BJ20723-MSD1	QC	10/16/2012 07:2	CC	30	10	Y12I026	12J0486-02	25	10	EPA 3550B	
BJ20723-MSD2	QC	10/16/2012 07:2	CC	30	10	Y12J004	12J0518-04	100	10	EPA 3550B	

Batch Comments:

Sequence Name: C:\HPCHEM\1\SEQUENCE\P3-1017.S
Comment: A,B 60 mL/min make-up + Anode purge
Operator: JW
Data Path: C:\HPCHEM\1\DATA\101712\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	PST__001	PEST3	DDT, ENDRIN
2	Sample	2	PST__002	PEST3	PEST MIX AB #3, 50.0 ng/mL
3	Sample	3	PST__003	PEST3	CHLORDANE, 1.0 ug/mL
4	Sample	4	PST__004	PEST3	TOXAPHENE, 1.0 ug/mL
5	Sample	5	PST__005	PEST3	BJ20723-BLK1
6	Sample	6	PST__006	PEST3	BJ20723-BS1
7	Sample	7	PST__007	PEST3	12J0486-01
8	Sample	8	PST__008	PEST3	12J0486-02
9	Sample	9	PST__009	PEST3	BJ20723-MS1
10	Sample	10	PST__010	PEST3	BJ20723-MSD1
11	Sample	11	PST__011	PEST3	12J0518-02
12	Sample	2	PST__012	PEST3	PEST MIX AB #3, 50.0 ng/mL
13					

York Analytical Laboratories, Inc.

SDG: 12J0486

CLASS: METALS

METHOD: EPA SW846-6010B

DATA PACKAGE COVER PAGE

EPA SW846-6010B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701

Client Sample Id:	Lab Sample Id:
Langan #048	12J0486-01
Langan #049	12J0486-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Robert Q. Bradley

Name: Robert Q. Bradley

Date: 10/19/2012

Title: Executive Vice President & Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA SW846-6010B

Langan #048

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-01 File ID: qbi101512b-100

Sampled: 10/12/12 15:00 Prepared: 10/15/12 16:24 Analyzed: 10/16/12 02:55

Solids: 90.49 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BJ20719 Sequence: Calibration: Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	7430	1		EPA SW846-6010B
7440-36-0	Antimony	0.553	1	U	EPA SW846-6010B
7440-38-2	Arsenic	3.25	1		EPA SW846-6010B
7440-39-3	Barium	56.9	1		EPA SW846-6010B
7440-41-7	Beryllium	0.402	1		EPA SW846-6010B
7440-43-9	Cadmium	0.553	1	U	EPA SW846-6010B
7440-70-2	Calcium	6330	1	B	EPA SW846-6010B
7440-47-3	Chromium	14.9	1		EPA SW846-6010B
7440-48-4	Cobalt	5.74	1		EPA SW846-6010B
7440-50-8	Copper	23.7	1		EPA SW846-6010B
7439-89-6	Iron	14600	1	B	EPA SW846-6010B
7439-92-1	Lead	75.2	1		EPA SW846-6010B
7439-95-4	Magnesium	2960	1		EPA SW846-6010B
7439-96-5	Manganese	347	1		EPA SW846-6010B
7440-02-0	Nickel	19.4	1		EPA SW846-6010B
7440-09-7	Potassium	1260	1		EPA SW846-6010B
7782-49-2	Selenium	2.76	1		EPA SW846-6010B
7440-22-4	Silver	0.553	1	U	EPA SW846-6010B
7440-23-5	Sodium	237	1		EPA SW846-6010B
7440-28-0	Thallium	0.553	1	U	EPA SW846-6010B
7440-62-2	Vanadium	20.9	1		EPA SW846-6010B
7440-66-6	Zinc	57.2	1		EPA SW846-6010B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA SW846-6010B

Langan #049

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-02 File ID: qbi101512b-101

Sampled: 10/12/12 15:00 Prepared: 10/15/12 16:24 Analyzed: 10/16/12 03:00

Solids: 88.01 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BJ20719 Sequence: Calibration: Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	7500	1		EPA SW846-6010B
7440-36-0	Antimony	0.604	1		EPA SW846-6010B
7440-38-2	Arsenic	7.87	1		EPA SW846-6010B
7440-39-3	Barium	148	1		EPA SW846-6010B
7440-41-7	Beryllium	0.354	1		EPA SW846-6010B
7440-43-9	Cadmium	0.568	1	U	EPA SW846-6010B
7440-70-2	Calcium	11700	1	B	EPA SW846-6010B
7440-47-3	Chromium	21.2	1		EPA SW846-6010B
7440-48-4	Cobalt	7.32	1		EPA SW846-6010B
7440-50-8	Copper	39.1	1		EPA SW846-6010B
7439-89-6	Iron	17400	1	B	EPA SW846-6010B
7439-92-1	Lead	470	1		EPA SW846-6010B
7439-95-4	Magnesium	3190	1		EPA SW846-6010B
7439-96-5	Manganese	382	1		EPA SW846-6010B
7440-02-0	Nickel	27.7	1		EPA SW846-6010B
7440-09-7	Potassium	1610	1		EPA SW846-6010B
7782-49-2	Selenium	4.14	1		EPA SW846-6010B
7440-22-4	Silver	0.568	1	U	EPA SW846-6010B
7440-23-5	Sodium	312	1		EPA SW846-6010B
7440-28-0	Thallium	0.568	1	U	EPA SW846-6010B
7440-62-2	Vanadium	29.8	1		EPA SW846-6010B
7440-66-6	Zinc	129	1		EPA SW846-6010B

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Initial Calibration Source: Inorganic Ventures Sequence: QBI101512B

Continuing Calibration Source: Inorganic Ventures Concentration units: ug/L

	Initial Calibration Verification			CCV-1			CCV-8	
Analyte*	TRUE	FOUND	%R(1)	TRUE	FOUND	% R(1)	FOUND	% R(1)
Arsenic	250.0	238.1	95	250.0	239.4	96	237.9	95
Thallium	250.0	239.2	96	250.0	245.5	98	240.0	96
Selenium	250.0	247.2	99	250.0	248.2	99	240.4	96
Zinc	2500	2509	100	2500	2544	102	2512	100
Antimony	250.0	248.6	99	250.0	254.2	102	247.1	99
Lead	250.0	250.2	100	250.0	259.0	104	250.6	100
Cadmium	125.0	121.9	98	125.0	123.9	99	122.5	98
Cobalt	2500	2484	99	2500	2518	101	2525	101
Nickel	2500	2436	97	2500	2476	99	2478	99
Barium	10000	10120	101	10000	10200	102	10180	102
Manganese	2500	2486	99	2500	2503	100	2516	101
Chromium	1000	981.0	98	1000	1001	100	999.0	100
Iron	5000	4936	99	5000	5036	101	5041	101
Magnesium	25000	24420	98	25000	24670	99	24730	99
Vanadium	2500	243	10	2500	2456	98	2470	99
Aluminum	10000	9868	99	10000	9603	96	9668	97
Beryllium	250.0	243.2	97	250.0	245.4	98	249.5	100
Copper	1250	1198	96	1250	1222	98	1203	96
Silver	1250	1208	97	1250	1240	99	1221	98
Sodium	25000	22660	91	25000	22920	92	22840	91
Calcium	25000	24180	97	25000	24450	98	24030	96
Aluminum, Radial	10000	9948	99	10000	9947	99	9572	96
Iron, Radial	5000	4988	100	5000	5047	101	4914	98
Calcium, Radial	25000	25520	102	25000	25330	101	24560	98
Potassium, Radial	5000	4906	98	5000	4843	97	4720	94
Magnesium, Radial	25000	25100	100	25000	25250	101	24170	97
Sodium, Radial	25000	24610	98	25000	24540	98	23850	95

* = Axial analysis unless otherwise noted

(1) Control Limits: 90-110 %

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Initial Calibration Source: Inorganic Ventures Sequence: QBI101512B

Continuing Calibration Source: Inorganic Ventures Concentration units: ug/L

	Initial Calibration Verification			CCV-9			CCV-10	
Analyte*	TRUE	FOUND	%R(1)	TRUE	FOUND	% R(1)	FOUND	% R(1)
Arsenic	250.0	238.1	95	250.0	237.9	95	239.3	96
Thallium	250.0	239.2	96	250.0	243.6	97	242.4	97
Selenium	250.0	247.2	99	250.0	247.7	99	241.0	96
Zinc	2500	2509	100	2500	2509	100	2514	101
Antimony	250.0	248.6	99	250.0	250.2	100	248.1	99
Lead	250.0	250.2	100	250.0	253.8	102	254.0	102
Cadmium	125.0	121.9	98	125.0	122.4	98	122.0	98
Cobalt	2500	2484	99	2500	2518	101	2528	101
Nickel	2500	2436	97	2500	2466	99	2473	99
Barium	10000	10120	101	10000	10120	101	10140	101
Manganese	2500	2486	99	2500	2500	100	2509	100
Chromium	1000	981.0	98	1000	995.5	100	992.1	99
Iron	5000	4936	99	5000	5028	101	5067	101
Magnesium	25000	24420	98	25000	24640	99	24630	99
Vanadium	2500	243	10	2500	2458	98	2450	98
Aluminum	10000	9868	99	10000	9585	96	9656	97
Beryllium	250.0	243.2	97	250.0	249.6	100	246.6	99
Copper	1250	1198	96	1250	1208	97	1205	96
Silver	1250	1208	97	1250	1218	97	1214	97
Sodium	25000	22660	91	25000	22770	91	22840	91
Calcium	25000	24180	97	25000	24220	97	24290	97
Aluminum, Radial	10000	9948	99	10000	9670	97	9940	99
Iron, Radial	5000	4988	100	5000	4906	98	5005	100
Calcium, Radial	25000	25520	102	25000	24600	98	25280	101
Potassium, Radial	5000	4906	98	5000	4743	95	4866	97
Magnesium, Radial	25000	25100	100	25000	24580	98	24980	100
Sodium, Radial	25000	24610	98	25000	24640	99	24630	99

* = Axial analysis unless otherwise noted

(1) Control Limits: 90-110 %

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Initial Calibration Source: Inorganic Ventures Sequence: QBI101512B

Continuing Calibration Source: Inorganic Ventures Concentration units: ug/L

Analyte*	Initial Calibration Verification			CCV-11				
	TRUE	FOUND	%R(1)	TRUE	FOUND	% R(1)		
Arsenic	250.0	238.1	95	250.0	236.8	95		
Thallium	250.0	239.2	96	250.0	244.9	98		
Selenium	250.0	247.2	99	250.0	242.0	97		
Zinc	2500	2509	100	2500	2502	100		
Antimony	250.0	248.6	99	250.0	248.3	99		
Lead	250.0	250.2	100	250.0	251.6	101		
Cadmium	125.0	121.9	98	125.0	121.4	97		
Cobalt	2500	2484	99	2500	2532	101		
Nickel	2500	2436	97	2500	2461	98		
Barium	10000	10120	101	10000	10060	101		
Manganese	2500	2486	99	2500	2491	100		
Chromium	1000	981.0	98	1000	982.8	98		
Iron	5000	4936	99	5000	5063	101		
Magnesium	25000	24420	98	25000	24560	98		
Vanadium	2500	243	10	2500	2443	98		
Aluminum	10000	9868	99	10000	9650	97		
Beryllium	250.0	243.2	97	250.0	247.9	99		
Copper	1250	1198	96	1250	1208	97		
Silver	1250	1208	97	1250	1202	96		
Sodium	25000	22660	91	25000	22700	91		
Calcium	25000	24180	97	25000	24110	96		
Aluminum, Radial	10000	9948	99	10000	9452	95		
Iron, Radial	5000	4988	100	5000	5003	100		
Calcium, Radial	25000	25520	102	25000	24830	99		
Potassium, Radial	5000	4906	98	5000	4721	94		
Magnesium, Radial	25000	25100	100	25000	24730	99		
Sodium, Radial	25000	24610	98	25000	24580	98		

* = Axial analysis unless otherwise noted

(1) Control Limits: 90-110 %

FORM 2B

RL STANDARDS

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

ICP Standard Source: Inorganic Ventures Concentration Units: ug/L

Sequence ID: QBI101512B

Analyte*	Initial TRUE	Initial FOUND	Initial %R	Final TRUE	Final FOUND	Final % R
Arsenic	10.0	11.1	111	10.0	11.3	113
Thallium	10.0	10.5	105	10.0	10.8	108
Selenium	10.0	7.7	77	10.0	9.3	93
Zinc	5.0	6.3	126	5.0	7.4	148
Antimony	10.0	12.2	122	10.0	9.8	98
Lead	5.0	5.0	100	5.0	5.0	100
Cadmium	5.0	5.2	104	5.0	5.2	104
Cobalt	5.0	5.4	108	5.0	5.4	108
Nickel	5.0	4.7	94	5.0	3.7	74
Barium	10.0	11.1	111	10.0	10.9	109
Manganese	5.0	5.4	108	5.0	5.3	106
Chromium	5.0	5.3	106	5.0	5.3	106
Iron	5.0	5.2	104	5.0	7.5	150
Magnesium	--		--	--		--
Vanadium	5.0	5.0	100	5.0	5.0	100
Aluminum	10.0	0.0	0	10.0	0.0	0
Beryllium	5.0	4.8	96	5.0	5.1	102
Copper	5.0	4.8	96	5.0	4.9	98
Silver	5.0	5.2	104	5.0	5.5	110
Sodium	--		--	--		--
Calcium	--		--	--		--
Aluminum, Radial	10.0	0.0	0	10.0	0.0	0
Iron, Radial	5.0	4.8	96	5.0	5.6	112
Calcium, Radial	--		--	--		--
Potassium, Radial	--		--	--		--
Magnesium, Radial	--		--	--		--
Sodium, Radial	--		--	--		--

* = Axial analysis unless otherwise noted

Form 3

BLANKS

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Preparation Blank Matrix: Soil Prep. Blank ID: BJ20719-BLK1

Preparation Blank Concentration Units: mg/kg Sequence ID: QBI101512B

		Initial Calibration Blank-ug/L		Continuing Calibration Blanks (ug/L)						Preparation Blank	
	Analyte*	Result	C	1	C	8	C	9	C	Result	C
10	Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	0.5	U
10	Thallium	10.0	U	10.0	U	10.0	U	10.0	U	0.5	U
10	Selenium	10.0	U	10.0	U	10.0	U	10.0	U	0.5	U
20	Zinc	20.0	U	20.0	U	20.0	U	20.0	U	0.5	U
5	Antimony	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
3	Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.3	U
3	Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	0.5	U
5	Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
5	Nickel	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
10	Barium	10.0	U	10.0	U	10.0	U	10.0	U	0.5	U
5	Manganese	5.0	U	5.0	U	5.0	U	5.0	U	1.0	U
5	Chromium	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
10	Iron	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
20	Magnesium	20.0	U	20.0	U	20.0	U	20.0	U	2.0	U
10	Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	0.5	U
10	Aluminum	10.0	U	10.0	U	10.0	U	10.0	U	2.0	U
1	Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.1	U
5	Copper	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
5	Silver	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
100	Sodium	100.0	U	100.0	U	100.0	U	100.0	U	10.0	U
20	Calcium	20.0	U	20.0	U	20.0	U	20.0	U	2.0	U
10	Aluminum, Radial	10.0	U	10.0	U	10.0	U	10.0	U	2.0	U
10	Iron, Radial	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
20	Calcium, Radial	20.0	U	20.0	U	24.9	B	24.2	B	2.0	U
50	Potassium, Radial	50.0	U	50.0	U	50.0	U	50.0	U	10.0	U
20	Magnesium, Radial	20.0	U	20.0	U	22.1	B	20.0	U	2.0	U
100	Sodium, Radial	100.0	U	100.0	U	100.0	U	100.0	U	10.0	U

* = Axial analysis unless otherwise noted

Form 3

BLANKS

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Preparation Blank Matrix: NA Prep. Blank ID: NA

Preparation Blank Concentration: NA Sequence ID: QBI101512B

		Initial Calibration Blank-ug/L		Continuing Calibration Blanks (ug/L)							
	Analyte*	Result	C	10	C	11	C				
10	Arsenic	10.0	U	10.0	U	10.0	U				
10	Thallium	10.0	U	10.0	U	10.0	U				
10	Selenium	10.0	U	10.0	U	10.0	U				
20	Zinc	20.0	U	20.0	U	20.0	U				
5	Antimony	5.0	U	5.0	U	5.0	U				
3	Lead	3.0	U	3.0	U	3.0	U				
3	Cadmium	3.0	U	3.0	U	3.0	U				
5	Cobalt	5.0	U	5.0	U	5.0	U				
5	Nickel	5.0	U	5.0	U	5.0	U				
10	Barium	10.0	U	10.0	U	10.0	U				
5	Manganese	5.0	U	5.0	U	5.0	U				
5	Chromium	5.0	U	5.0	U	5.0	U				
10	Iron	10.0	U	10.0	U	10.0	U				
20	Magnesium	20.0	U	20.0	U	20.0	U				
10	Vanadium	10.0	U	10.0	U	10.0	U				
10	Aluminum	10.0	U	10.0	U	10.0	U				
1	Beryllium	1.0	U	1.0	U	1.0	U				
5	Copper	5.0	U	5.0	U	5.0	U				
5	Silver	5.0	U	5.0	U	5.0	U				
100	Sodium	100.0	U	100.0	U	100.0	U				
20	Calcium	20.0	U	20.0	U	20.0	U				
10	Aluminum, Radial	10.0	U	10.0	U	10.0	U				
10	Iron, Radial	10.0	U	10.0	U	10.0	U				
20	Calcium, Radial	20.0	U	20.0	U	30.5	B				
50	Potassium, Radial	50.0	U	50.0	U	50.0	U				
20	Magnesium, Radial	20.0	U	26.3	B	21.2	B				
100	Sodium, Radial	100.0	U	100.0	U	100.0	U				

* = Axial analysis unless otherwise noted

FORM 4

ICP INTERFERENCE CHECK SAMPLE

Lab Name:	York Analytical Laboratories Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
ICS Source:	Inorganic Ventures	Sequence:	QBI101512B
ICP ID No.:	PE Optima 7300 DV	Concentration Units: ug/L	

Analyte*	TRUE		Initial Found			Final Found		
	Sol. A	Sol. B	Sol. A	Sol. AB	% R	Sol. A	Sol. AB	% R
Arsenic		500		566.6	113		554.2	111
Thallium		500		497.0	99		500.4	100
Selenium		500		577.5	116		558.5	112
Zinc		1000		885.9	89		866.0	87
Antimony		500		536.9	107		538.3	108
Lead		1000		900.0	90		903.5	90
Cadmium		1000		915.1	92		894.7	89
Cobalt		500		455.6	91		459.7	92
Nickel		1000		1102	110		1101	110
Barium		500		522.5	105		514.8	103
Manganese		500		459.1	92		455.2	91
Chromium		500		459.5	92		477.4	95
Iron	200000		179800		90	179300		90
Magnesium	500000		477900		96	476000		95
Vanadium		500		510.8	102		503.3	101
Aluminum	500000		494300		99	493500		99
Beryllium		500		483.0	97		483.7	97
Copper		500		488.3	98		483.6	97
Silver		1000		1052	105		1035	104
Sodium	--	--			--			--
Calcium	500000		506900		101	502100		100
Aluminum, Radial	500000		516900		103	512800		103
Iron, Radial	200000		197100		99	194000		97
Calcium, Radial	500000		483600		97	480600		96
Potassium, Radial	--	--			--			--
Magnesium, Radial	500000		498600		100	488200		98
Sodium, Radial	--	--			--			--

* = Axial analysis unless otherwise noted

STANDARD REFERENCE MATERIAL RECOVERY

EPA SW846-6010B

Laboratory: York Analytical Laboratories, Inc.
SDG: 12J0486
Client: Langan Engineering & Environmental Services (NJ)
Project: Typical Requests
Matrix: Soil
Batch: BJ20719
Laboratory ID: BJ20719-SRM1
Preparation: EPA 3050B
Initial/Final: 0.5 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	9310	6340	68.1	43.3 - 157
Antimony	120	96.7	80.6	20.8 - 253
Arsenic	168	160	95.1	70.8 - 130
Barium	213	193	90.5	73.2 - 127
Beryllium	110	103	93.4	75.1 - 125
Cadmium	103	92.6	89.9	73 - 126
Calcium	6870	6310	91.9	74.4 - 126
Chromium	119	105	88.3	69.7 - 129
Cobalt	131	126	96.2	74.4 - 125
Copper	118	112	94.9	74.6 - 125
Iron	13000	11000	84.9	32.2 - 168
Lead	76.9	71.1	92.5	68.7 - 131
Magnesium	2780	2350	84.6	61.5 - 135
Manganese	338	320	94.7	75.4 - 125
Nickel	70.0	74.9	107	70.9 - 129
Potassium	3130	2580	82.4	62.9 - 137
Selenium	126	123	97.5	66.7 - 134
Silver	42.3	39.4	93.1	66.2 - 134
Sodium	350	333	95.2	42.9 - 157
Thallium	208	200	96.2	69.2 - 121
Vanadium	87.1	77.2	88.7	63.1 - 137
Zinc	276	248	89.8	71.3 - 129

* Values outside of QC limits

FORM 9A

ICP SERIAL DILUTIONS

Lab Name:	York Analytical Laboratories, Inc.	Client Sample ID:	Non Site Specific
Client:	Langan Engineering & Environmental Services	SDG:	12J0486
Matrix:	Aqueous	Project:	100242701
ICP ID No.:	PE Optima PE Optima 7300 DV		
Sequence ID:	QBI101512B	Laboratory ID:	12J0500-02

Analyte*	Initial Sample Result (I)**	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic		U		U			P
Thallium		U		U			P
Selenium		U		U			P
Zinc	559		640		14.4	#	P
Antimony		U		U			P
Lead	350		403		14.9	#	P
Cadmium		U		U			P
Cobalt	73.80		83.50		13.1	#	P
Nickel	191.4		221.0		15.5	#	P
Barium	558		627		12.3	#	P
Manganese	3243		3737		15.2	#	P
Chromium	176.6		209.5		18.6	#	P
Iron	154000		182750		18.7	#	P
Magnesium	50170		57000		13.6	#	P
Vanadium	289.7		319.5		10.3	#	P
Aluminum	105800		114750		8.5		P
Beryllium		U		U			P
Copper	198.6		211.0		6.2		P
Silver		U		U			P
Sodium		U		U			P
Calcium	41370		43810		5.9		P
Aluminum, Radial	104200		113700		9.1		P
Iron, Radial	163900		181500		10.7	#	P
Calcium, Radial	47990		52950		10.3	#	P
Potassium, Radial	13430		14460		7.7		P
Magnesium, Radial	40040		55550		38.7	#	P
Sodium, Radial		U		U			P

* = Axial analysis unless otherwise noted
** = reported when result is 50 times IDL
# = Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA SW846-6010B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 12J0486

Client: Langan Engineering & Environmental Services (NJ) **Project:** 100242701

Matrix: Soil **Instrument:**

Analyte	MDL	MRL	Units
Aluminum	1.02	2.00	mg/kg
Antimony	0.220	0.500	mg/kg
Arsenic	0.340	1.00	mg/kg
Barium	0.130	0.500	mg/kg
Beryllium	0.100	0.100	mg/kg
Cadmium	0.100	0.500	mg/kg
Calcium	0.040	2.00	mg/kg
Chromium	0.120	0.500	mg/kg
Cobalt	0.080	0.500	mg/kg
Copper	0.120	0.500	mg/kg
Iron	0.650	1.00	mg/kg
Lead	0.170	0.300	mg/kg
Magnesium	0.450	2.00	mg/kg
Manganese	0.110	1.00	mg/kg
Nickel	0.130	0.500	mg/kg
Potassium	3.38	10.0	mg/kg
Selenium	0.500	0.500	mg/kg
Silver	0.100	0.500	mg/kg
Sodium	5.27	10.0	mg/kg
Thallium	0.320	0.500	mg/kg
Vanadium	0.110	0.500	mg/kg
Zinc	0.090	0.500	mg/kg

Interelement Correction Factors
ICP-OES DV-7300

IEC File Name: IEC 051211A

IEC File Last Saved: 9/28/2011 2:47:48 PM
Printed On: 9/28/2011 2:47:52 PM

Method Name: TAL METHOD
Results Library: C:\pe\MIKEW\Results\Res

Interfering Analytes

	Analytes	Fe 273.955	Al 308.215	Ca 227.546	Mg 279.077
1	**Ag 338.289**	0	0	0.01053	0
2	**Al 308.215**	-0.0853677	n/a	0.0113715	0.0230017
3	**Al RADIAL**	-0.120022	1040.13	-0.0385377	-0.0326901
4	**As 188.979**	-0.147064	0	0	0
5	**Ba 233.527**	0	0	0	0
6	**Be 313.107**	0	0	0	0
7	**Ca 227.546**	-4.69394	-0.540569	n/a	-0.0764809
8	**Ca RADIAL**	-0.208308	-0.0362947	985.629	-0.0380518
9	**Cd 226.502**	0.188643	0	0	0
10	**Co 228.616**	0	0	0	0
11	**Cr 267.716**	0	0	0	0
12	**Cu 324.752**	-0.0486096	0.011678	0.0195576	0.0130959
13	**Fe 273.955**	n/a	0	0	0
14	**Fe RADIAL**	1050.93	0.010468	0	0.0130041
15	**K RADIAL**	0	-0.0141601	0	0.019658
16	**Mg 279.077**	-0.0503105	0	0.0223471	n/a
17	**Mg RADIAL**	-0.0472329	0	0.0580061	959.388
18	**Mn 257.610**	-0.0538655	0	0	0.0184026
19	**Na 330.237**	-4.8803	-0.0462274	-1.67366	-0.102377
20	**Na RADIAL**	0.073432	0.0403134	0.0327159	0.108619
21	**Ni 232.003**	-0.163436	0	0	0
22	**Pb 220.353**	0.130655	-0.0944594	-0.011762	0
23	**Sb 206.836**	0	0.0149504	0	0
24	**Se 196.026**	-0.702912	0	0	0
25	**Tl 190.801**	-0.0795765	-0.0111665	0	0
26	**V 292.402**	0.0810207	0	0	0
27	**Y 371.029**	25.2577	9.27277	8.3464	8.87615
28	**Y RADIAL**	25.9251	9.90661	8.63732	9.4563
29	**Zn 206.200**	0.0476982	0.0198303	0	0

YORK ANALYTICAL LABS

ICP Linear Dynamic Range 08/16/12

Perkin Elmer Optima DV7300 Axial/Radial - Method 6010B

Analyte	Linear Dynamic Range, mg/L
As	100
Tl	20
Se	200
Zn	10
Sb	200
Pb	20
Cd	10
Co	25
Ni	100
Ba	40
Mn	10
Cr	20
V	100
Be	10
Cu	5
Ag	25
Al Radial	400
Fe Radial	200
Ca Radial	500
K Radial	200
Mg Radial	1000
Na Radial	500

FORM IV

PREPARATION BATCH SUMMARY

EPA SW846-6010B

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Batch: BJ20719 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Langan #048	12J0486-01	qbi101512b-100	10/15/12 16:24	
Langan #049	12J0486-02	qbi101512b-101	10/15/12 16:24	
Blank	BJ20719-BLK1	qbi101512b-096	10/15/12 16:24	
Reference	BJ20719-SRM1	qbi101512b-097	10/15/12 16:24	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA SW846-6010B

Laboratory: York Analytical Laboratories, Inc.

SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ)

Project: 100242701

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	BJ20719-BLK1	qbi101512b-096	10/16/12 02:32
Reference	BJ20719-SRM1	qbi101512b-097	10/16/12 02:37
Langan #048	12J0486-01	qbi101512b-100	10/16/12 02:55
Langan #049	12J0486-02	qbi101512b-101	10/16/12 03:00

HOLDING TIME SUMMARY

EPA SW846-6010B

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Langan #048	10/12/12 15:00	10/12/12 18:00	10/15/12 16:24	3.06	180.00	10/16/12 02:55	0.44	30.00	
Langan #049	10/12/12 15:00	10/12/12 18:00	10/15/12 16:24	3.06	180.00	10/16/12 03:00	0.44	30.00	

Sample Information Detail Report
Document Name: 101512b

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi101512b
Analyst Name	MW
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

3	3	ICV
4	4	ICB
5	5	RL STD
6	6	ICS A
7	7	ICS AB
8	3	CCV-1
9	4	CCB-1
10	9	BJ20716-BLK1
11	10	BJ20716-SRM1
12	11	12J0401-01
13	12	12J0401-02
14	13	12J0410-01
15	14	12J0411-01
16	15	12J0421-01
17	16	BJ20716-DUP1
18	17	BJ20716-MS1
19	18	12J0421-02
20	3	CCV-2
21	4	CCB-2
22	19	12J0421-03
23	20	12J0421-04
24	21	12J0421-05
25	22	12J0421-06
26	23	12J0423-01
27	24	12J0423-02
28	25	12J0424-01
29	26	12J0424-01
30	27	12J0424-02
31	28	12J0424-02
32	3	CCV-3
33	4	CCB-3
34	29	12J0425-03
35	30	12J0426-01
36	31	12J0426-01
37	32	12J0431-09
38	33	BJ20717-BLK1
39	34	BJ20717-SRM1
40	35	BJ20717-SRM2
41	36	12J0448-01
42	37	12J0448-02
43	38	12J0448-03
44	3	CCV-4
45	4	CCB-4
46	39	12J0450-01
47	40	12J0460-02
48	41	12J0460-05
49	42	12J0466-26
50	43	BJ20717-DUP1
51	44	BJ20717-MS1
52	45	12J0467-01
53	46	12J0471-01
54	47	12J0471-01
55	48	12J0471-02
56	3	CCV-5
57	4	CCB-5
58	49	12J0471-02

59	50	12J0471-04
60	51	12J0471-04
61	52	12J0471-05
62	53	12J0471-05
63	54	12J0501-01
64	55	12J0501-01
65	56	BJ20718-BLK1
66	57	BJ20718-SRM1
67	58	12J0475-01
68	3	CCV-6
69	4	CCB-6
70	59	12J0475-02
71	60	12J0475-03
72	61	12J0475-04
73	62	12J0475-05
74	63	BJ20718-DUP1
75	64	BJ20718-MS1
76	65	12J0475-06
77	66	12J0481-01
78	67	12J0481-02
79	68	12J0481-03
80	8	CCV-7
81	1	CCB-7
82	69	12J0481-04
83	70	12J0499-01
84	71	12J0499-02
85	72	12J0499-03
86	73	12J0499-04
87	74	12J0499-05
88	75	12J0499-06
89	76	12J0499-07
90	77	12J0499-08
91	78	12J0499-09
92	8	CCV-8
93	1	CCB-8
94	79	12J0499-10
95	80	BJ20719-BLK1
96	81	BJ20719-SRM1
97	82	12J0498-07
98	83	12J0484-01
99	84	12J0486-01
100	85	12J0486-02
101	86	12J0487-01
102	87	BJ20719-DUP1
103	88	BJ20719-MS1
104	8	CCV-9
105	1	CCB-9
106	89	12J0488-01
107	90	12J0488-02
108	91	12J0488-03
109	92	12J0488-04
110	93	12J0488-05
111	94	12J0488-06
112	95	12J0488-07
113	96	12J0488-08
114	97	12J0488-09
115	98	12J0488-10
116	8	CCV-10
117	1	CCB-10
118	99	12J0488-11
119	100	12J0488-12
120	101	12J0489-01
121	102	12J0490-01
122	103	12J0500-02
123	104	SD 1:5 S 12J0500-02
124	105	SD 1:5 A 12J0421-05
125	5	RL STD
126	6	ICS A

127	7	ICS AB
128	8	CCV-11
129	1	CCB-11

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Analysis Begun

Start Time: 10/15/2012 4:59:26 PM
Plasma On Time: 10/15/2012 8:26:10 AM
Logged In Analyst: mikew
Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C9011901Autosampler Model: S10

Sample Information File: C:\pe\Mikew\Sample Information\101512b.sif
Batch ID: qbi101512b
Results Data Set: qbi101512b
Results Library: C:\pe\MIKEW\Results\Results.mdb

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Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 10/15/2012 4:59:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	18260463.1	101278.03	0.55%	5.000	mg/L
Y RADIAL	337223.3	3135.50	0.93%	5.000	mg/L
As 188.979†	-38.3	8.70	22.71%	[0.00]	mg/L
Tl 190.801†	-65.0	5.13	7.89%	[0.00]	mg/L
Se 196.026†	13.1	7.06	54.01%	[0.00]	mg/L
Zn 206.200†	104.4	8.55	8.19%	[0.00]	mg/L
Sb 206.836†	59.6	5.65	9.48%	[0.00]	mg/L
Pb 220.353†	50.6	7.82	15.46%	[0.00]	mg/L
Cd 226.502†	-310.8	12.47	4.01%	[0.00]	mg/L
Co 228.616†	-141.9	9.71	6.84%	[0.00]	mg/L
Ni 232.003†	-431.9	7.62	1.76%	[0.00]	mg/L
Ba 233.527†	-66.4	10.07	15.17%	[0.00]	mg/L
Mn 257.610†	410.5	10.77	2.62%	[0.00]	mg/L
Cr 267.716†	181.3	20.73	11.43%	[0.00]	mg/L
Fe 273.955†	31.1	3.30	10.64%	[0.00]	mg/L
Mg 279.077†	61.3	24.12	39.36%	[0.00]	mg/L
V 292.402†	15.8	26.26	166.16%	[0.00]	mg/L
Al 308.215†	11488.7	87.09	0.76%	[0.00]	mg/L
Be 313.107†	-13045.3	224.50	1.72%	[0.00]	mg/L
Cu 324.752†	4251.4	68.82	1.62%	[0.00]	mg/L
Ag 338.289†	16.8	45.52	271.26%	[0.00]	mg/L
Na 330.237†	814.4	48.23	5.92%	[0.00]	mg/L
Ca 227.546†	-290.7	13.63	4.69%	[0.00]	mg/L
Al RADIAL†	174.1	14.72	8.45%	[0.00]	mg/L
Fe RADIAL†	1.5	1.50	102.00%	[0.00]	mg/L
Ca RADIAL†	875.1	6.67	0.76%	[0.00]	mg/L
K RADIAL†	37.0	15.01	40.61%	[0.00]	mg/L
Mg RADIAL†	2.1	4.66	224.38%	[0.00]	mg/L
Na RADIAL†	-45123.7	692.19	1.53%	[0.00]	mg/L

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Sequence No.: 2
Autosampler Location: 2
Sample ID: CAL STD 1
Date Collected: 10/15/2012 5:04:38 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	16962069.2	257600.56	1.52%	4.644	mg/L
Y RADIAL	317291.1	3170.10	1.00%	4.704	mg/L
As 188.979†	3939.4	58.26	1.48%	[1.0000]	mg/L
Tl 190.801†	4102.6	66.83	1.63%	[1.0000]	mg/L
Se 196.026†	2099.4	33.70	1.61%	[1.0000]	mg/L
Zn 206.200†	547656.5	10939.46	2.00%	[5.0000]	mg/L
Sb 206.836†	2313.0	50.84	2.20%	[0.5000]	mg/L

Pb 220.353†	10234.2	189.95	1.86%	[1.0000]	mg/L
Cd 226.502†	106423.8	1944.41	1.83%	[0.5000]	mg/L
Co 228.616†	203868.4	3699.71	1.81%	[5.0000]	mg/L
Ni 232.003†	111269.6	1569.66	1.41%	[5.0000]	mg/L
Ba 233.527†	3379131.7	55742.11	1.65%	[20.0000]	mg/L
Mn 257.610†	4689474.8	77246.60	1.65%	[5.0000]	mg/L
Cr 267.716†	313187.8	5188.70	1.66%	[2.0000]	mg/L
Fe 273.955†	252853.3	4344.69	1.72%	[10.0000]	mg/L
Mg 279.077†	1136813.0	19878.34	1.75%	[50.0000]	mg/L
V 292.402†	1919614.0	36808.82	1.92%	[5.0000]	mg/L
Al 308.215†	782423.1	11334.54	1.45%	[20.0000]	mg/L
Be 313.107†	2570900.4	53898.64	2.10%	[0.5000]	mg/L
Cu 324.752†	1025118.5	14227.32	1.39%	[2.5000]	mg/L
Ag 338.289†	614398.0	9199.34	1.50%	[2.5000]	mg/L
Na 330.237†	73640.0	1037.52	1.41%	[50.0000]	mg/L
Ca 227.546†	27443.5	419.96	1.53%	[50.0000]	mg/L
Al RADIAL†	68034.0	265.51	0.39%	[20.0000]	mg/L
Fe RADIAL†	1461.5	15.41	1.05%	[10.0000]	mg/L
Ca RADIAL†	174737.6	519.57	0.30%	[50.0000]	mg/L
K RADIAL†	20479.1	99.31	0.48%	[10.0000]	mg/L
Mg RADIAL†	7419.2	65.09	0.88%	[50.0000]	mg/L
Na RADIAL†	1301784.8	2006.68	0.15%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: ICV
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 5:13:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17659170.8	4.835	mg/L	0.0195				0.40%
Y RADIAL	324114.0	4.806	mg/L	0.0725				1.51%
As 188.979†	935.0	0.2381	mg/L	0.00048	0.2381	mg/L	0.00048	0.20%
Tl 190.801†	979.2	0.2392	mg/L	0.00435	0.2392	mg/L	0.00435	1.82%
Se 196.026†	511.6	0.2472	mg/L	0.00603	0.2472	mg/L	0.00603	2.44%
Zn 206.200†	274852.6	2.509	mg/L	0.0172	2.509	mg/L	0.0172	0.69%
Sb 206.836†	1150.9	0.2486	mg/L	0.00308	0.2486	mg/L	0.00308	1.24%
Pb 220.353†	2554.3	0.2502	mg/L	0.00415	0.2502	mg/L	0.00415	1.66%
Cd 226.502†	26154.8	0.1219	mg/L	0.00050	0.1219	mg/L	0.00050	0.41%
Co 228.616†	101284.9	2.484	mg/L	0.0298	2.484	mg/L	0.0298	1.20%
Ni 232.003†	54186.4	2.436	mg/L	0.0081	2.436	mg/L	0.0081	0.33%
Ba 233.527†	1710428.3	10.12	mg/L	0.062	10.12	mg/L	0.062	0.61%
Mn 257.610†	2331589.7	2.486	mg/L	0.0153	2.486	mg/L	0.0153	0.61%
Cr 267.716†	153619.2	0.9810	mg/L	0.00564	0.9810	mg/L	0.00564	0.57%
Fe 273.955†	124817.4	4.936	mg/L	0.0412	4.936	mg/L	0.0412	0.83%
Mg 279.077†	555252.1	24.42	mg/L	0.140	24.42	mg/L	0.140	0.58%
V 292.402†	934258.8	2.433	mg/L	0.0245	2.433	mg/L	0.0245	1.01%
Al 308.215†	386075.5	9.868	mg/L	0.0688	9.868	mg/L	0.0688	0.70%
Be 313.107†	1250483.9	0.2432	mg/L	0.00376	0.2432	mg/L	0.00376	1.55%
Cu 324.752†	491589.1	1.198	mg/L	0.0054	1.198	mg/L	0.0054	0.45%
Ag 338.289†	296932.5	1.208	mg/L	0.0054	1.208	mg/L	0.0054	0.45%
Na 330.237†	33273.5	22.66	mg/L	0.201	22.66	mg/L	0.201	0.89%
Ca 227.546†	13255.6	24.18	mg/L	0.252	24.18	mg/L	0.252	1.04%
Al RADIAL†	33838.6	9.948	mg/L	0.0741	9.948	mg/L	0.0741	0.75%
Fe RADIAL†	729.0	4.988	mg/L	0.0528	4.988	mg/L	0.0528	1.06%
Ca RADIAL†	89201.9	25.52	mg/L	0.285	25.52	mg/L	0.285	1.12%
K RADIAL†	10047.4	4.906	mg/L	0.0378	4.906	mg/L	0.0378	0.77%
Mg RADIAL†	3724.4	25.10	mg/L	0.359	25.10	mg/L	0.359	1.43%
Na RADIAL†	640635.7	24.61	mg/L	0.074	24.61	mg/L	0.074	0.30%

Sequence No.: 4
Sample ID: ICB
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/15/2012 5:22:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Na RADIAL†	-634.1	-0.0244 mg/L	0.02639	-0.0244 mg/L	0.02639	108.35%

Sequence No.: 6
Sample ID: 12J0406-43
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 155
Date Collected: 10/15/2012 5:32:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0406-43

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17336526.8	4.747	mg/L	0.0869				1.83%
Y RADIAL	326083.5	4.835	mg/L	0.0126				0.26%
As 188.979†	24.3	0.0090	mg/L	0.00190	0.0090	mg/L	0.00190	21.19%
Tl 190.801†	-9.0	-0.0007	mg/L	0.00191	-0.0007	mg/L	0.00191	285.82%
Se 196.026†	-20.2	0.0037	mg/L	0.00234	0.0037	mg/L	0.00234	63.43%
Zn 206.200†	99974.1	0.9118	mg/L	0.01184	0.9118	mg/L	0.01184	1.30%
Sb 206.836†	165.9	0.0359	mg/L	0.00030	0.0359	mg/L	0.00030	0.83%
Pb 220.353†	18686.3	1.824	mg/L	0.0136	1.824	mg/L	0.0136	0.74%
Cd 226.502†	544.0	-0.0010	mg/L	0.00000	-0.0010	mg/L	0.00000	0.49%
Co 228.616†	100.2	0.0025	mg/L	0.00020	0.0025	mg/L	0.00020	8.26%
Ni 232.003†	2058.4	0.0956	mg/L	0.00014	0.0956	mg/L	0.00014	0.15%
Ba 233.527†	24748.8	0.1465	mg/L	0.00262	0.1465	mg/L	0.00262	1.79%
Mn 257.610†	229453.1	0.2457	mg/L	0.00397	0.2457	mg/L	0.00397	1.62%
Cr 267.716†	1712.2	0.0109	mg/L	0.00005	0.0109	mg/L	0.00005	0.42%
Fe 273.955†	479041.1	18.95	mg/L	0.274	18.95	mg/L	0.274	1.45%
Mg 279.077†	8917.3	0.3932	mg/L	0.01075	0.3932	mg/L	0.01075	2.73%
V 292.402†	3284.6	0.0070	mg/L	0.00019	0.0070	mg/L	0.00019	2.64%
Al 308.215†	42966.3	1.100	mg/L	0.0256	1.100	mg/L	0.0256	2.33%
Be 313.107†	-371.6	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	79.78%
Cu 324.752†	810335.6	1.977	mg/L	0.0348	1.977	mg/L	0.0348	1.76%
Ag 338.289†	-61.0	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	67.27%
Na 330.237†	-680.8	-0.3702	mg/L	0.01544	-0.3702	mg/L	0.01544	4.17%
Ca 227.546†	-178.5	-0.2357	mg/L	0.00212	-0.2357	mg/L	0.00212	0.90%
Al RADIAL†	3827.6	1.125	mg/L	0.0181	1.125	mg/L	0.0181	1.61%
Fe RADIAL†	2756.7	18.86	mg/L	0.067	18.86	mg/L	0.067	0.35%
Ca RADIAL†	2228.6	0.6377	mg/L	0.00548	0.6377	mg/L	0.00548	0.86%
K RADIAL†	370.3	0.1808	mg/L	0.01730	0.1808	mg/L	0.01730	9.57%
Mg RADIAL†	54.8	0.3690	mg/L	0.02497	0.3690	mg/L	0.02497	6.77%
Na RADIAL†	7782.2	0.2989	mg/L	0.02871	0.2989	mg/L	0.02871	9.60%

Sequence No.: 7
Sample ID: 12J0406-54
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 156
Date Collected: 10/15/2012 5:38:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0406-54

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17388091.2	4.761	mg/L	0.0495				1.04%
Y RADIAL	335014.9	4.967	mg/L	0.0203				0.41%
As 188.979†	42.2	0.0123	mg/L	0.00230	0.0123	mg/L	0.00230	18.72%
Tl 190.801†	-8.3	-0.0012	mg/L	0.00113	-0.0012	mg/L	0.00113	98.06%
Se 196.026†	-9.9	0.0028	mg/L	0.00156	0.0028	mg/L	0.00156	55.44%
Zn 206.200†	47013.9	0.4287	mg/L	0.00294	0.4287	mg/L	0.00294	0.68%
Sb 206.836†	386.4	0.0835	mg/L	0.00103	0.0835	mg/L	0.00103	1.23%
Pb 220.353†	84343.9	8.240	mg/L	0.0924	8.240	mg/L	0.0924	1.12%
Cd 226.502†	312.0	-0.0006	mg/L	0.00008	-0.0006	mg/L	0.00008	15.26%
Co 228.616†	48.3	0.0012	mg/L	0.00028	0.0012	mg/L	0.00028	23.25%
Ni 232.003†	692.5	0.0329	mg/L	0.00015	0.0329	mg/L	0.00015	0.46%
Ba 233.527†	13590.1	0.0804	mg/L	0.00041	0.0804	mg/L	0.00041	0.51%
Mn 257.610†	70851.3	0.0761	mg/L	0.00031	0.0761	mg/L	0.00031	0.41%
Cr 267.716†	1253.0	0.0080	mg/L	0.00015	0.0080	mg/L	0.00015	1.90%
Fe 273.955†	270955.9	10.72	mg/L	0.084	10.72	mg/L	0.084	0.79%
Mg 279.077†	4608.5	0.2032	mg/L	0.00200	0.2032	mg/L	0.00200	0.98%
V 292.402†	2211.2	0.0049	mg/L	0.00023	0.0049	mg/L	0.00023	4.73%
Al 308.215†	22961.5	0.5878	mg/L	0.00107	0.5878	mg/L	0.00107	0.18%

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18271734.1	5.003	mg/L	0.0261				0.52%
Y RADIAL	333952.9	4.952	mg/L	0.0292				0.59%
As 188.979†	1.7	0.0004	mg/L	0.00188	0.0004	mg/L	0.00188	439.07%
Tl 190.801†	1.4	0.0003	mg/L	0.00080	0.0003	mg/L	0.00080	239.45%
Se 196.026†	-6.7	-0.0032	mg/L	0.00131	-0.0032	mg/L	0.00131	41.33%
Zn 206.200†	9.5	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	86.96%
Sb 206.836†	3.4	0.0007	mg/L	0.00115	0.0007	mg/L	0.00115	156.17%
Pb 220.353†	2.2	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	96.18%
Cd 226.502†	14.2	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	139.33%
Co 228.616†	10.1	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	47.37%
Ni 232.003†	4.0	0.0002	mg/L	0.00030	0.0002	mg/L	0.00030	164.14%
Ba 233.527†	104.0	0.0006	mg/L	0.00036	0.0006	mg/L	0.00036	58.91%
Mn 257.610†	147.4	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	59.85%
Cr 267.716†	24.2	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	57.58%
Fe 273.955†	-11.9	-0.0005	mg/L	0.00045	-0.0005	mg/L	0.00045	95.55%
Mg 279.077†	25.9	0.0011	mg/L	0.00195	0.0011	mg/L	0.00195	170.82%
V 292.402†	56.1	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	67.93%
Al 308.215†	4.1	0.0001	mg/L	0.00147	0.0001	mg/L	0.00147	>999.9%
Be 313.107†	110.1	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	125.84%
Cu 324.752†	-47.9	-0.0001	mg/L	0.00024	-0.0001	mg/L	0.00024	205.49%
Ag 338.289†	92.9	0.0004	mg/L	0.00042	0.0004	mg/L	0.00042	109.93%
Na 330.237†	48.1	0.0326	mg/L	0.03910	0.0326	mg/L	0.03910	119.82%
Ca 227.546†	-6.8	-0.0123	mg/L	0.03051	-0.0123	mg/L	0.03051	248.00%
Al RADIAL†	6.7	0.0020	mg/L	0.00146	0.0020	mg/L	0.00146	74.31%
Fe RADIAL†	-0.8	-0.0052	mg/L	0.03049	-0.0052	mg/L	0.03049	587.54%
Ca RADIAL†	25.6	0.0073	mg/L	0.00289	0.0073	mg/L	0.00289	39.38%
K RADIAL†	-7.3	-0.0035	mg/L	0.01125	-0.0035	mg/L	0.01125	317.46%
Mg RADIAL†	1.6	0.0105	mg/L	0.01031	0.0105	mg/L	0.01031	97.99%
Na RADIAL†	-1077.9	-0.0414	mg/L	0.02596	-0.0414	mg/L	0.02596	62.70%

Sequence No.: 5
Sample ID: RL STD
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/15/2012 5:27:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RL STD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17966202.6	4.919	mg/L	0.0215				0.44%
Y RADIAL	332908.5	4.936	mg/L	0.0533				1.08%
As 188.979†	43.7	0.0111	mg/L	0.00163	0.0111	mg/L	0.00163	14.66%
Tl 190.801†	42.9	0.0105	mg/L	0.00091	0.0105	mg/L	0.00091	8.70%
Se 196.026†	16.1	0.0077	mg/L	0.00338	0.0077	mg/L	0.00338	44.02%
Zn 206.200†	691.8	0.0063	mg/L	0.00019	0.0063	mg/L	0.00019	2.97%
Sb 206.836†	56.5	0.0122	mg/L	0.00169	0.0122	mg/L	0.00169	13.84%
Pb 220.353†	50.7	0.0050	mg/L	0.00071	0.0050	mg/L	0.00071	14.44%
Cd 226.502†	1103.9	0.0052	mg/L	0.00004	0.0052	mg/L	0.00004	0.73%
Co 228.616†	221.4	0.0054	mg/L	0.00005	0.0054	mg/L	0.00005	0.93%
Ni 232.003†	104.3	0.0047	mg/L	0.00071	0.0047	mg/L	0.00071	15.05%
Ba 233.527†	1873.8	0.0111	mg/L	0.00008	0.0111	mg/L	0.00008	0.74%
Mn 257.610†	5020.2	0.0054	mg/L	0.00006	0.0054	mg/L	0.00006	1.15%
Cr 267.716†	822.6	0.0053	mg/L	0.00012	0.0053	mg/L	0.00012	2.20%
Fe 273.955†	132.0	0.0052	mg/L	0.00023	0.0052	mg/L	0.00023	4.33%
Mg 279.077†	-8.4	-0.0004	mg/L	0.00028	-0.0004	mg/L	0.00028	77.11%
V 292.402†	1935.3	0.0050	mg/L	0.00004	0.0050	mg/L	0.00004	0.72%
Al 308.215†	-75.1	-0.0019	mg/L	0.00208	-0.0019	mg/L	0.00208	108.58%
Be 313.107†	24558.4	0.0048	mg/L	0.00003	0.0048	mg/L	0.00003	0.65%
Cu 324.752†	1963.4	0.0048	mg/L	0.00015	0.0048	mg/L	0.00015	3.11%
Ag 338.289†	1273.4	0.0052	mg/L	0.00026	0.0052	mg/L	0.00026	5.05%
Na 330.237†	-59.3	-0.0403	mg/L	0.02550	-0.0403	mg/L	0.02550	63.21%
Ca 227.546†	-24.3	-0.0443	mg/L	0.07915	-0.0443	mg/L	0.07915	178.69%
Al RADIAL†	-38.5	-0.0113	mg/L	0.00026	-0.0113	mg/L	0.00026	2.26%
Fe RADIAL†	0.7	0.0048	mg/L	0.00947	0.0048	mg/L	0.00947	197.16%
Ca RADIAL†	-123.7	-0.0354	mg/L	0.00333	-0.0354	mg/L	0.00333	9.41%
K RADIAL†	-0.1	-0.0001	mg/L	0.00871	-0.0001	mg/L	0.00871	>999.9%
Mg RADIAL†	-0.0	-0.0002	mg/L	0.00452	-0.0002	mg/L	0.00452	>999.9%

Be 313.107†	-244.9	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	120.57%
Cu 324.752†	413963.7	1.010 mg/L	0.0061	1.010 mg/L	0.0061	0.61%
Ag 338.289†	93.4	0.0004 mg/L	0.00050	0.0004 mg/L	0.00050	129.72%
Na 330.237†	-381.9	-0.2075 mg/L	0.04217	-0.2075 mg/L	0.04217	20.32%
Ca 227.546†	-170.5	-0.2601 mg/L	0.04169	-0.2601 mg/L	0.04169	16.03%
Al RADIAL†	1957.1	0.5753 mg/L	0.00279	0.5753 mg/L	0.00279	0.48%
Fe RADIAL†	1490.2	10.20 mg/L	0.070	10.20 mg/L	0.070	0.69%
Ca RADIAL†	759.2	0.2172 mg/L	0.00466	0.2172 mg/L	0.00466	2.14%
K RADIAL†	216.9	0.1059 mg/L	0.02123	0.1059 mg/L	0.02123	20.05%
Mg RADIAL†	28.2	0.1903 mg/L	0.00339	0.1903 mg/L	0.00339	1.78%
Na RADIAL†	1758.0	0.0675 mg/L	0.01525	0.0675 mg/L	0.01525	22.58%

Sequence No.: 8
Sample ID: 12J0406-63
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 157
Date Collected: 10/15/2012 5:43:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0406-63

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18182996.9	4.979	mg/L	0.0214				0.43%
Y RADIAL	334584.1	4.961	mg/L	0.0698				1.41%
As 188.979†	13.3	0.0049	mg/L	0.00144	0.0049	mg/L	0.00144	29.15%
Tl 190.801†	0.4	0.0009	mg/L	0.00060	0.0009	mg/L	0.00060	63.25%
Se 196.026†	-10.1	0.0027	mg/L	0.00223	0.0027	mg/L	0.00223	82.59%
Zn 206.200†	117679.1	1.074	mg/L	0.0114	1.074	mg/L	0.0114	1.06%
Sb 206.836†	100.2	0.0217	mg/L	0.00166	0.0217	mg/L	0.00166	7.68%
Pb 220.353†	20321.9	1.984	mg/L	0.0269	1.984	mg/L	0.0269	1.35%
Cd 226.502†	318.8	-0.0005	mg/L	0.00004	-0.0005	mg/L	0.00004	7.38%
Co 228.616†	102.8	0.0025	mg/L	0.00023	0.0025	mg/L	0.00023	8.98%
Ni 232.003†	5720.2	0.2588	mg/L	0.00527	0.2588	mg/L	0.00527	2.04%
Ba 233.527†	24760.2	0.1465	mg/L	0.00119	0.1465	mg/L	0.00119	0.82%
Mn 257.610†	126020.5	0.1349	mg/L	0.00133	0.1349	mg/L	0.00133	0.99%
Cr 267.716†	1129.1	0.0072	mg/L	0.00005	0.0072	mg/L	0.00005	0.69%
Fe 273.955†	269568.3	10.66	mg/L	0.054	10.66	mg/L	0.054	0.51%
Mg 279.077†	6933.0	0.3055	mg/L	0.00240	0.3055	mg/L	0.00240	0.79%
V 292.402†	3157.3	0.0074	mg/L	0.00008	0.0074	mg/L	0.00008	1.11%
Al 308.215†	27952.8	0.7154	mg/L	0.00927	0.7154	mg/L	0.00927	1.30%
Be 313.107†	-164.6	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	127.19%
Cu 324.752†	1805716.9	4.404	mg/L	0.0077	4.404	mg/L	0.0077	0.18%
Ag 338.289†	56.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.28%
Na 330.237†	-1222.3	-0.7775	mg/L	0.03037	-0.7775	mg/L	0.03037	3.91%
Ca 227.546†	127.6	0.2829	mg/L	0.01517	0.2829	mg/L	0.01517	5.36%
Al RADIAL†	2518.7	0.7404	mg/L	0.01285	0.7404	mg/L	0.01285	1.74%
Fe RADIAL†	1592.1	10.89	mg/L	0.162	10.89	mg/L	0.162	1.49%
Ca RADIAL†	2858.5	0.8180	mg/L	0.02012	0.8180	mg/L	0.02012	2.46%
K RADIAL†	144.6	0.0706	mg/L	0.01513	0.0706	mg/L	0.01513	21.42%
Mg RADIAL†	45.1	0.3037	mg/L	0.01390	0.3037	mg/L	0.01390	4.57%
Na RADIAL†	1923.8	0.0739	mg/L	0.01243	0.0739	mg/L	0.01243	16.82%

Sequence No.: 9
Sample ID: ICS A
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/15/2012 5:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15404380.2	4.218	mg/L	0.0062				0.15%
Y RADIAL	292682.2	4.340	mg/L	0.0577				1.33%
As 188.979†	-100.3	0.0010	mg/L	0.00175	0.0010	mg/L	0.00175	179.36%
Tl 190.801†	-91.2	-0.0024	mg/L	0.00170	-0.0024	mg/L	0.00170	70.72%
Se 196.026†	-258.7	0.0032	mg/L	0.01176	0.0032	mg/L	0.01176	372.47%
Zn 206.200†	3439.4	0.0130	mg/L	0.00027	0.0130	mg/L	0.00027	2.04%
Sb 206.836†	-35.9	-0.0152	mg/L	0.00205	-0.0152	mg/L	0.00205	13.54%
Pb 220.353†	-434.6	-0.0133	mg/L	0.00217	-0.0133	mg/L	0.00217	16.29%

Cd 226.502†	4434.3	-0.0131 mg/L	0.00025	-0.0131 mg/L	0.00025	1.95%
Co 228.616†	-156.3	-0.0038 mg/L	0.00026	-0.0038 mg/L	0.00026	6.77%
Ni 232.003†	462.8	0.0502 mg/L	0.00333	0.0502 mg/L	0.00333	6.64%
Ba 233.527†	440.1	0.0026 mg/L	0.00007	0.0026 mg/L	0.00007	2.65%
Mn 257.610†	-17482.3	-0.0177 mg/L	0.00038	-0.0177 mg/L	0.00038	2.14%
Cr 267.716†	-1173.2	-0.0075 mg/L	0.00014	-0.0075 mg/L	0.00014	1.84%
Fe 273.955†	4547139.3	179.8 mg/L	1.05	179.8 mg/L	1.05	0.58%
Mg 279.077†	10865691.6	477.9 mg/L	1.45	477.9 mg/L	1.45	0.30%
V 292.402†	20271.4	0.0382 mg/L	0.00129	0.0382 mg/L	0.00129	3.36%
Al 308.215†	19335934.3	494.3 mg/L	0.99	494.3 mg/L	0.99	0.20%
Be 313.107†	-1472.1	-0.0003 mg/L	0.00002	-0.0003 mg/L	0.00002	6.15%
Cu 324.752†	-9977.4	-0.0375 mg/L	0.00012	-0.0375 mg/L	0.00012	0.31%
Ag 338.289†	-412.9	-0.0070 mg/L	0.00003	-0.0070 mg/L	0.00003	0.42%
Na 330.237†	-1236.3	0.9564 mg/L	0.00658	0.9564 mg/L	0.00658	0.69%
Ca 227.546†	277568.9	506.9 mg/L	3.91	506.9 mg/L	3.91	0.77%
Al RADIAL†	1758486.7	516.9 mg/L	1.28	516.9 mg/L	1.28	0.25%
Fe RADIAL†	28800.1	197.1 mg/L	0.77	197.1 mg/L	0.77	0.39%
Ca RADIAL†	1690004.1	483.6 mg/L	1.31	483.6 mg/L	1.31	0.27%
K RADIAL†	99.3	0.0485 mg/L	0.03856	0.0485 mg/L	0.03856	79.52%
Mg RADIAL†	73978.4	498.6 mg/L	3.11	498.6 mg/L	3.11	0.62%
Na RADIAL†	8501.5	0.3265 mg/L	0.03316	0.3265 mg/L	0.03316	10.16%

Sequence No.: 10
Sample ID: ICS AB
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/15/2012 5:57:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS AB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15703671.0	4.300	mg/L	0.0049				0.11%
Y RADIAL	302451.4	4.484	mg/L	0.0172				0.38%
As 188.979†	2128.1	0.5666	mg/L	0.01145	0.5666	mg/L	0.01145	2.02%
Tl 190.801†	1957.9	0.4970	mg/L	0.00444	0.4970	mg/L	0.00444	0.89%
Se 196.026†	947.4	0.5775	mg/L	0.02146	0.5775	mg/L	0.02146	3.72%
Zn 206.200†	99041.3	0.8859	mg/L	0.00219	0.8859	mg/L	0.00219	0.25%
Sb 206.836†	2517.5	0.5369	mg/L	0.01229	0.5369	mg/L	0.01229	2.29%
Pb 220.353†	8917.2	0.9000	mg/L	0.00775	0.9000	mg/L	0.00775	0.86%
Cd 226.502†	201982.3	0.9151	mg/L	0.00166	0.9151	mg/L	0.00166	0.18%
Co 228.616†	18574.6	0.4556	mg/L	0.00161	0.4556	mg/L	0.00161	0.35%
Ni 232.003†	23876.9	1.102	mg/L	0.0085	1.102	mg/L	0.0085	0.77%
Ba 233.527†	88272.5	0.5225	mg/L	0.00189	0.5225	mg/L	0.00189	0.36%
Mn 257.610†	429751.6	0.4591	mg/L	0.00110	0.4591	mg/L	0.00110	0.24%
Cr 267.716†	71951.1	0.4595	mg/L	0.00130	0.4595	mg/L	0.00130	0.28%
Fe 273.955†	4540072.0	179.6	mg/L	0.61	179.6	mg/L	0.61	0.34%
Mg 279.077†	10879271.1	478.5	mg/L	2.18	478.5	mg/L	2.18	0.45%
V 292.402†	201705.0	0.5108	mg/L	0.00234	0.5108	mg/L	0.00234	0.46%
Al 308.215†	19201727.1	490.8	mg/L	1.06	490.8	mg/L	1.06	0.22%
Be 313.107†	2483347.4	0.4830	mg/L	0.00497	0.4830	mg/L	0.00497	1.03%
Cu 324.752†	205510.6	0.4883	mg/L	0.00018	0.4883	mg/L	0.00018	0.04%
Ag 338.289†	259737.5	1.052	mg/L	0.0018	1.052	mg/L	0.0018	0.17%
Na 330.237†	-2369.7	0.1659	mg/L	0.00173	0.1659	mg/L	0.00173	1.04%
Ca 227.546†	271202.4	495.3	mg/L	0.49	495.3	mg/L	0.49	0.10%
Al RADIAL†	1752054.8	515.1	mg/L	2.06	515.1	mg/L	2.06	0.40%
Fe RADIAL†	28577.3	195.5	mg/L	0.37	195.5	mg/L	0.37	0.19%
Ca RADIAL†	1688591.7	483.2	mg/L	1.05	483.2	mg/L	1.05	0.22%
K RADIAL†	68.3	0.0333	mg/L	0.01841	0.0333	mg/L	0.01841	55.21%
Mg RADIAL†	73286.9	493.9	mg/L	0.98	493.9	mg/L	0.98	0.20%
Na RADIAL†	9812.1	0.3769	mg/L	0.00930	0.3769	mg/L	0.00930	2.47%

Sequence No.: 11
Sample ID: CCV-1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 6:05:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17382397.6	4.760	mg/L	0.0236				0.50%
Y RADIAL	321742.0	4.770	mg/L	0.0136				0.29%
As 188.979†	940.3	0.2394	mg/L	0.00274	0.2394	mg/L	0.00274	1.15%
Tl 190.801†	1005.2	0.2455	mg/L	0.00021	0.2455	mg/L	0.00021	0.08%
Se 196.026†	513.6	0.2482	mg/L	0.00270	0.2482	mg/L	0.00270	1.09%
Zn 206.200†	278664.7	2.544	mg/L	0.0158	2.544	mg/L	0.0158	0.62%
Sb 206.836†	1176.8	0.2542	mg/L	0.00333	0.2542	mg/L	0.00333	1.31%
Pb 220.353†	2645.2	0.2590	mg/L	0.00209	0.2590	mg/L	0.00209	0.81%
Cd 226.502†	26571.7	0.1239	mg/L	0.00107	0.1239	mg/L	0.00107	0.86%
Co 228.616†	102652.1	2.518	mg/L	0.0208	2.518	mg/L	0.0208	0.83%
Ni 232.003†	55073.5	2.476	mg/L	0.0078	2.476	mg/L	0.0078	0.32%
Ba 233.527†	1723457.3	10.20	mg/L	0.045	10.20	mg/L	0.045	0.44%
Mn 257.610†	2347734.5	2.503	mg/L	0.0150	2.503	mg/L	0.0150	0.60%
Cr 267.716†	156712.6	1.001	mg/L	0.0041	1.001	mg/L	0.0041	0.41%
Fe 273.955†	127332.8	5.036	mg/L	0.0381	5.036	mg/L	0.0381	0.76%
Mg 279.077†	560822.9	24.67	mg/L	0.195	24.67	mg/L	0.195	0.79%
V 292.402†	943131.0	2.456	mg/L	0.0236	2.456	mg/L	0.0236	0.96%
Al 308.215†	375714.7	9.603	mg/L	0.0564	9.603	mg/L	0.0564	0.59%
Be 313.107†	1261630.6	0.2454	mg/L	0.00401	0.2454	mg/L	0.00401	1.63%
Cu 324.752†	501535.3	1.222	mg/L	0.0062	1.222	mg/L	0.0062	0.51%
Ag 338.289†	304864.4	1.240	mg/L	0.0048	1.240	mg/L	0.0048	0.38%
Na 330.237†	33654.2	22.92	mg/L	0.016	22.92	mg/L	0.016	0.07%
Ca 227.546†	13402.2	24.45	mg/L	0.095	24.45	mg/L	0.095	0.39%
Al RADIAL†	33835.2	9.947	mg/L	0.1258	9.947	mg/L	0.1258	1.26%
Fe RADIAL†	737.6	5.047	mg/L	0.0240	5.047	mg/L	0.0240	0.47%
Ca RADIAL†	88539.4	25.33	mg/L	0.267	25.33	mg/L	0.267	1.05%
K RADIAL†	9918.5	4.843	mg/L	0.0457	4.843	mg/L	0.0457	0.94%
Mg RADIAL†	3746.0	25.25	mg/L	0.100	25.25	mg/L	0.100	0.40%
Na RADIAL†	638941.3	24.54	mg/L	0.073	24.54	mg/L	0.073	0.30%

Sequence No.: 12
Sample ID: CCB-1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/15/2012 6:14:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	18215789.0	4.988	mg/L	0.0343				0.69%
Y RADIAL	340129.9	5.043	mg/L	0.0161				0.32%
As 188.979†	9.7	0.0025	mg/L	0.00190	0.0025	mg/L	0.00190	77.43%
Tl 190.801†	-2.6	-0.0006	mg/L	0.00079	-0.0006	mg/L	0.00079	126.29%
Se 196.026†	-0.9	-0.0004	mg/L	0.00112	-0.0004	mg/L	0.00112	275.89%
Zn 206.200†	50.1	0.0005	mg/L	0.00010	0.0005	mg/L	0.00010	22.67%
Sb 206.836†	-1.2	-0.0003	mg/L	0.00242	-0.0003	mg/L	0.00242	958.44%
Pb 220.353†	2.2	0.0002	mg/L	0.00073	0.0002	mg/L	0.00073	336.59%
Cd 226.502†	25.2	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	66.21%
Co 228.616†	34.6	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	15.66%
Ni 232.003†	19.9	0.0009	mg/L	0.00108	0.0009	mg/L	0.00108	120.76%
Ba 233.527†	537.8	0.0032	mg/L	0.00014	0.0032	mg/L	0.00014	4.33%
Mn 257.610†	718.7	0.0008	mg/L	0.00004	0.0008	mg/L	0.00004	4.70%
Cr 267.716†	29.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.84%
Fe 273.955†	72.7	0.0029	mg/L	0.00024	0.0029	mg/L	0.00024	8.22%
Mg 279.077†	145.2	0.0064	mg/L	0.00091	0.0064	mg/L	0.00091	14.23%
V 292.402†	327.0	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	6.81%
Al 308.215†	304.9	0.0078	mg/L	0.00301	0.0078	mg/L	0.00301	38.63%
Be 313.107†	214.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	71.24%
Cu 324.752†	148.3	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	13.69%
Ag 338.289†	277.0	0.0011	mg/L	0.00041	0.0011	mg/L	0.00041	36.48%
Na 330.237†	-23.6	-0.0160	mg/L	0.03329	-0.0160	mg/L	0.03329	208.14%
Ca 227.546†	5.7	0.0105	mg/L	0.02261	0.0105	mg/L	0.02261	215.47%
Al RADIAL†	24.7	0.0073	mg/L	0.00344	0.0073	mg/L	0.00344	47.36%
Fe RADIAL†	-0.2	-0.0017	mg/L	0.00801	-0.0017	mg/L	0.00801	478.10%
Ca RADIAL†	49.3	0.0141	mg/L	0.00335	0.0141	mg/L	0.00335	23.74%
K RADIAL†	-20.4	-0.0100	mg/L	0.02566	-0.0100	mg/L	0.02566	257.35%
Mg RADIAL†	1.7	0.0117	mg/L	0.00766	0.0117	mg/L	0.00766	65.35%
Na RADIAL†	134.4	0.0052	mg/L	0.00996	0.0052	mg/L	0.00996	192.86%

Sequence No.: 13
Sample ID: BJ20716-BLK1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/15/2012 6:19:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20716-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18200278.5	4.984	mg/L	0.0556				1.12%
Y RADIAL	332992.4	4.937	mg/L	0.0333				0.67%
As 188.979†	2.1	0.0005	mg/L	0.00143	0.0005	mg/L	0.00143	273.78%
Tl 190.801†	4.6	0.0011	mg/L	0.00129	0.0011	mg/L	0.00129	114.09%
Se 196.026†	-0.6	-0.0003	mg/L	0.00215	-0.0003	mg/L	0.00215	734.97%
Zn 206.200†	-36.7	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	30.18%
Sb 206.836†	-5.3	-0.0011	mg/L	0.00294	-0.0011	mg/L	0.00294	257.74%
Pb 220.353†	-3.0	-0.0003	mg/L	0.00095	-0.0003	mg/L	0.00095	323.53%
Cd 226.502†	11.7	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	101.31%
Co 228.616†	2.7	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	211.97%
Ni 232.003†	8.0	0.0004	mg/L	0.00071	0.0004	mg/L	0.00071	195.93%
Ba 233.527†	3.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	92.42%
Mn 257.610†	24.3	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	37.80%
Cr 267.716†	3.2	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	680.32%
Fe 273.955†	0.8	0.0000	mg/L	0.00027	0.0000	mg/L	0.00027	842.99%
Mg 279.077†	32.0	0.0014	mg/L	0.00046	0.0014	mg/L	0.00046	32.66%
V 292.402†	22.2	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	172.11%
Al 308.215†	64.6	0.0017	mg/L	0.00435	0.0017	mg/L	0.00435	263.53%
Be 313.107†	-26.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	511.01%
Cu 324.752†	-28.8	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	97.74%
Ag 338.289†	82.3	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	105.68%
Na 330.237†	-47.3	-0.0321	mg/L	0.02372	-0.0321	mg/L	0.02372	73.92%
Ca 227.546†	6.5	0.0119	mg/L	0.02489	0.0119	mg/L	0.02489	209.42%
Al RADIAL†	0.2	0.0001	mg/L	0.00333	0.0001	mg/L	0.00333	>999.9%
Fe RADIAL†	-0.8	-0.0055	mg/L	0.00863	-0.0055	mg/L	0.00863	156.49%
Ca RADIAL†	38.0	0.0109	mg/L	0.00514	0.0109	mg/L	0.00514	47.30%
K RADIAL†	-1.5	-0.0007	mg/L	0.01734	-0.0007	mg/L	0.01734	>999.9%
Mg RADIAL†	0.6	0.0040	mg/L	0.01369	0.0040	mg/L	0.01369	345.41%
Na RADIAL†	-1947.4	-0.0748	mg/L	0.03854	-0.0748	mg/L	0.03854	51.53%

Sequence No.: 14
Sample ID: BJ20716-SRM1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 10/15/2012 6:24:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20716-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18347259.9	5.024	mg/L	0.0660				1.31%
Y RADIAL	341476.3	5.063	mg/L	0.0500				0.99%
As 188.979†	496.0	0.1259	mg/L	0.00596	0.1259	mg/L	0.00596	4.73%
Tl 190.801†	639.5	0.1559	mg/L	0.00618	0.1559	mg/L	0.00618	3.96%
Se 196.026†	1046.9	0.4988	mg/L	0.00291	0.4988	mg/L	0.00291	0.58%
Zn 206.200†	74457.5	0.6797	mg/L	0.00945	0.6797	mg/L	0.00945	1.39%
Sb 206.836†	636.4	0.1376	mg/L	0.00385	0.1376	mg/L	0.00385	2.80%
Pb 220.353†	19654.2	1.921	mg/L	0.0266	1.921	mg/L	0.0266	1.38%
Cd 226.502†	51264.5	0.2408	mg/L	0.00295	0.2408	mg/L	0.00295	1.23%
Co 228.616†	26761.2	0.6563	mg/L	0.00985	0.6563	mg/L	0.00985	1.50%
Ni 232.003†	12245.5	0.5503	mg/L	0.00799	0.5503	mg/L	0.00799	1.45%
Ba 233.527†	194679.3	1.152	mg/L	0.0165	1.152	mg/L	0.0165	1.43%
Mn 257.610†	802437.6	0.8556	mg/L	0.01372	0.8556	mg/L	0.01372	1.60%
Cr 267.716†	57793.7	0.3691	mg/L	0.00368	0.3691	mg/L	0.00368	1.00%
Fe 273.955†	6597.2	0.2609	mg/L	0.00386	0.2609	mg/L	0.00386	1.48%
Mg 279.077†	-208.1	-0.0091	mg/L	0.00023	-0.0091	mg/L	0.00023	2.46%
V 292.402†	184998.3	0.4818	mg/L	0.00479	0.4818	mg/L	0.00479	0.99%
Al 308.215†	49244.1	1.259	mg/L	0.0245	1.259	mg/L	0.0245	1.94%
Be 313.107†	1775944.9	0.3454	mg/L	0.00699	0.3454	mg/L	0.00699	2.02%

Cu 324.752†	174387.5	0.4253 mg/L	0.00575	0.4253 mg/L	0.00575	1.35%
Ag 338.289†	53488.6	0.2176 mg/L	0.00211	0.2176 mg/L	0.00211	0.97%
Na 330.237†	-754.9	-0.5111 mg/L	0.07009	-0.5111 mg/L	0.07009	13.71%
Ca 227.546†	54.3	0.1008 mg/L	0.02058	0.1008 mg/L	0.02058	20.41%
Al RADIAL†	4410.4	1.297 mg/L	0.0066	1.297 mg/L	0.0066	0.51%
Fe RADIAL†	32.7	0.2239 mg/L	0.01790	0.2239 mg/L	0.01790	7.99%
Ca RADIAL†	-134.6	-0.0385 mg/L	0.00504	-0.0385 mg/L	0.00504	13.08%
K RADIAL†	-15.4	-0.0075 mg/L	0.00904	-0.0075 mg/L	0.00904	120.46%
Mg RADIAL†	0.6	0.0037 mg/L	0.00325	0.0037 mg/L	0.00325	87.53%
Na RADIAL†	1934.0	0.0743 mg/L	0.06746	0.0743 mg/L	0.06746	90.81%

Sequence No.: 15
Sample ID: 12J0401-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 10/15/2012 6:29:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0401-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18142790.3	4.968	mg/L	0.0462				0.93%
Y RADIAL	339997.2	5.041	mg/L	0.0706				1.40%
As 188.979†	1.8	0.0006	mg/L	0.00228	0.0006	mg/L	0.00228	364.97%
Tl 190.801†	-15.6	-0.0037	mg/L	0.00186	-0.0037	mg/L	0.00186	50.27%
Se 196.026†	10.4	0.0058	mg/L	0.00081	0.0058	mg/L	0.00081	14.02%
Zn 206.200†	44603.5	0.4072	mg/L	0.00796	0.4072	mg/L	0.00796	1.95%
Sb 206.836†	-9.6	-0.0021	mg/L	0.00275	-0.0021	mg/L	0.00275	131.69%
Pb 220.353†	31.1	0.0035	mg/L	0.00043	0.0035	mg/L	0.00043	12.34%
Cd 226.502†	112.1	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	11.06%
Co 228.616†	34.3	0.0008	mg/L	0.00024	0.0008	mg/L	0.00024	28.61%
Ni 232.003†	91.5	0.0043	mg/L	0.00021	0.0043	mg/L	0.00021	4.99%
Ba 233.527†	10486.1	0.0621	mg/L	0.00055	0.0621	mg/L	0.00055	0.89%
Mn 257.610†	73506.3	0.0782	mg/L	0.00102	0.0782	mg/L	0.00102	1.30%
Cr 267.716†	182.6	0.0012	mg/L	0.00016	0.0012	mg/L	0.00016	13.56%
Fe 273.955†	29100.6	1.151	mg/L	0.0170	1.151	mg/L	0.0170	1.48%
Mg 279.077†	332887.6	14.64	mg/L	0.217	14.64	mg/L	0.217	1.48%
V 292.402†	821.3	0.0020	mg/L	0.00005	0.0020	mg/L	0.00005	2.64%
Al 308.215†	31412.1	0.8022	mg/L	0.01448	0.8022	mg/L	0.01448	1.80%
Be 313.107†	342.3	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	185.26%
Cu 324.752†	8353.9	0.0194	mg/L	0.00046	0.0194	mg/L	0.00046	2.36%
Ag 338.289†	43.4	-0.0003	mg/L	0.00031	-0.0003	mg/L	0.00031	111.33%
Na 330.237†	76875.4	52.28	mg/L	0.615	52.28	mg/L	0.615	1.18%
Ca 227.546†	23833.1	43.43	mg/L	0.585	43.43	mg/L	0.585	1.35%
Al RADIAL†	2760.6	0.8115	mg/L	0.02836	0.8115	mg/L	0.02836	3.49%
Fe RADIAL†	175.4	1.200	mg/L	0.0187	1.200	mg/L	0.0187	1.56%
Ca RADIAL†	161664.5	46.26	mg/L	0.152	46.26	mg/L	0.152	0.33%
K RADIAL†	38259.7	18.68	mg/L	0.574	18.68	mg/L	0.574	3.07%
Mg RADIAL†	2219.1	14.96	mg/L	0.262	14.96	mg/L	0.262	1.75%
Na RADIAL†	1286405.0	49.41	mg/L	0.374	49.41	mg/L	0.374	0.76%

Sequence No.: 16
Sample ID: 12J0401-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 10/15/2012 6:35:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0401-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17571668.8	4.811	mg/L	0.0383				0.80%
Y RADIAL	329156.0	4.880	mg/L	0.0244				0.50%
As 188.979†	-0.8	-0.0002	mg/L	0.00138	-0.0002	mg/L	0.00138	659.35%
Tl 190.801†	-6.4	-0.0015	mg/L	0.00126	-0.0015	mg/L	0.00126	81.18%
Se 196.026†	3.1	0.0015	mg/L	0.00184	0.0015	mg/L	0.00184	124.02%
Zn 206.200†	5356.6	0.0489	mg/L	0.00028	0.0489	mg/L	0.00028	0.58%
Sb 206.836†	-3.1	-0.0007	mg/L	0.00068	-0.0007	mg/L	0.00068	102.24%
Pb 220.353†	-3.7	0.0001	mg/L	0.00148	0.0001	mg/L	0.00148	>999.9%
Cd 226.502†	31.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	45.88%

Co 228.616†	15.4	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	36.69%
Ni 232.003†	20.0	0.0009 mg/L	0.00058	0.0009 mg/L	0.00058	64.10%
Ba 233.527†	3347.3	0.0198 mg/L	0.00018	0.0198 mg/L	0.00018	0.90%
Mn 257.610†	12979.7	0.0136 mg/L	0.00010	0.0136 mg/L	0.00010	0.71%
Cr 267.716†	32.9	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.68%
Fe 273.955†	603.7	0.0239 mg/L	0.00030	0.0239 mg/L	0.00030	1.27%
Mg 279.077†	333036.5	14.65 mg/L	0.128	14.65 mg/L	0.128	0.87%
V 292.402†	368.8	0.0010 mg/L	0.00015	0.0010 mg/L	0.00015	15.75%
Al 308.215†	1162.3	0.0289 mg/L	0.00382	0.0289 mg/L	0.00382	13.22%
Be 313.107†	-513.7	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	84.31%
Cu 324.752†	1130.2	0.0018 mg/L	0.00018	0.0018 mg/L	0.00018	10.20%
Ag 338.289†	108.0	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	883.59%
Na 330.237†	78621.7	53.45 mg/L	0.416	53.45 mg/L	0.416	0.78%
Ca 227.546†	21623.4	39.40 mg/L	0.265	39.40 mg/L	0.265	0.67%
Al RADIAL†	73.9	0.0217 mg/L	0.00255	0.0217 mg/L	0.00255	11.74%
Fe RADIAL†	0.8	0.0056 mg/L	0.02037	0.0056 mg/L	0.02037	363.08%
Ca RADIAL†	147797.4	42.29 mg/L	0.084	42.29 mg/L	0.084	0.20%
K RADIAL†	26071.5	12.73 mg/L	0.027	12.73 mg/L	0.027	0.21%
Mg RADIAL†	2170.4	14.63 mg/L	0.064	14.63 mg/L	0.064	0.44%
Na RADIAL†	1316855.0	50.58 mg/L	0.121	50.58 mg/L	0.121	0.24%

Sequence No.: 17
Sample ID: 12J0410-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 10/15/2012 6:40:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0410-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17312398.2	4.740	mg/L	0.0526				1.11%
Y RADIAL	327249.9	4.852	mg/L	0.0268				0.55%
As 188.979†	1.5	0.0004	mg/L	0.00218	0.0004	mg/L	0.00218	494.27%
Tl 190.801†	-6.7	-0.0016	mg/L	0.00278	-0.0016	mg/L	0.00278	173.38%
Se 196.026†	2.2	0.0013	mg/L	0.00187	0.0013	mg/L	0.00187	142.67%
Zn 206.200†	6698.5	0.0611	mg/L	0.00053	0.0611	mg/L	0.00053	0.86%
Sb 206.836†	-13.2	-0.0028	mg/L	0.00101	-0.0028	mg/L	0.00101	35.56%
Pb 220.353†	96.2	0.0097	mg/L	0.00246	0.0097	mg/L	0.00246	25.30%
Cd 226.502†	39.0	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	59.57%
Co 228.616†	13.7	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	44.05%
Ni 232.003†	48.3	0.0022	mg/L	0.00088	0.0022	mg/L	0.00088	39.53%
Ba 233.527†	48542.5	0.2873	mg/L	0.00194	0.2873	mg/L	0.00194	0.68%
Mn 257.610†	11784.7	0.0125	mg/L	0.00013	0.0125	mg/L	0.00013	1.08%
Cr 267.716†	65.9	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	48.14%
Fe 273.955†	8595.5	0.3399	mg/L	0.00298	0.3399	mg/L	0.00298	0.88%
Mg 279.077†	132605.3	5.832	mg/L	0.0742	5.832	mg/L	0.0742	1.27%
V 292.402†	166.6	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	60.09%
Al 308.215†	983.9	0.0247	mg/L	0.00440	0.0247	mg/L	0.00440	17.80%
Be 313.107†	-657.0	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	37.31%
Cu 324.752†	67141.7	0.1631	mg/L	0.00198	0.1631	mg/L	0.00198	1.22%
Ag 338.289†	131.7	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	59.78%
Na 330.237†	169523.2	115.2	mg/L	1.29	115.2	mg/L	1.29	1.12%
Ca 227.546†	16931.1	30.85	mg/L	0.351	30.85	mg/L	0.351	1.14%
Al RADIAL†	24.5	0.0072	mg/L	0.00350	0.0072	mg/L	0.00350	48.70%
Fe RADIAL†	48.2	0.3299	mg/L	0.01594	0.3299	mg/L	0.01594	4.83%
Ca RADIAL†	117043.3	33.49	mg/L	0.245	33.49	mg/L	0.245	0.73%
K RADIAL†	22169.5	10.83	mg/L	0.070	10.83	mg/L	0.070	0.64%
Mg RADIAL†	866.5	5.839	mg/L	0.0654	5.839	mg/L	0.0654	1.12%
Na RADIAL†	2618764.4	100.6	mg/L	0.31	100.6	mg/L	0.31	0.30%

Sequence No.: 18
Sample ID: 12J0411-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 10/15/2012 6:45:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0411-01

Mean Corrected Calib. Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	17673678.5	4.839	mg/L	0.0240				0.50%
Y RADIAL	332413.0	4.929	mg/L	0.0212				0.43%
As 188.979†	19.7	0.0051	mg/L	0.00107	0.0051	mg/L	0.00107	20.99%
Tl 190.801†	-224.4	-0.0545	mg/L	0.00047	-0.0545	mg/L	0.00047	0.86%
Se 196.026†	56.4	0.0272	mg/L	0.00294	0.0272	mg/L	0.00294	10.81%
Zn 206.200†	168929.9	1.542	mg/L	0.0094	1.542	mg/L	0.0094	0.61%
Sb 206.836†	4.8	0.0008	mg/L	0.00042	0.0008	mg/L	0.00042	51.01%
Pb 220.353†	90.9	0.0109	mg/L	0.00057	0.0109	mg/L	0.00057	5.22%
Cd 226.502†	603.8	0.0027	mg/L	0.00006	0.0027	mg/L	0.00006	2.24%
Co 228.616†	-46.8	-0.0011	mg/L	0.00016	-0.0011	mg/L	0.00016	13.84%
Ni 232.003†	78.6	0.0036	mg/L	0.00084	0.0036	mg/L	0.00084	23.27%
Ba 233.527†	24241.8	0.1435	mg/L	0.00087	0.1435	mg/L	0.00087	0.61%
Mn 257.610†	67051.7	0.0712	mg/L	0.00047	0.0712	mg/L	0.00047	0.66%
Cr 267.716†	553.6	0.0035	mg/L	0.00012	0.0035	mg/L	0.00012	3.29%
Fe 273.955†	12048.0	0.4765	mg/L	0.00311	0.4765	mg/L	0.00311	0.65%
Mg 279.077†	375421.5	16.51	mg/L	0.101	16.51	mg/L	0.101	0.61%
V 292.402†	827.3	0.0021	mg/L	0.00020	0.0021	mg/L	0.00020	9.22%
Al 308.215†	513729.0	13.13	mg/L	0.083	13.13	mg/L	0.083	0.63%
Be 313.107†	-374.3	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	101.55%
Cu 324.752†	111223.7	0.2695	mg/L	0.00268	0.2695	mg/L	0.00268	0.99%
Ag 338.289†	78.7	-0.0004	mg/L	0.00045	-0.0004	mg/L	0.00045	106.01%
Na 330.237†	117403.9	79.84	mg/L	0.636	79.84	mg/L	0.636	0.80%
Ca 227.546†	38728.7	70.57	mg/L	0.534	70.57	mg/L	0.534	0.76%
Al RADIAL†	44370.8	13.04	mg/L	0.095	13.04	mg/L	0.095	0.72%
Fe RADIAL†	73.4	0.5024	mg/L	0.02572	0.5024	mg/L	0.02572	5.12%
Ca RADIAL†	269799.4	77.20	mg/L	0.681	77.20	mg/L	0.681	0.88%
K RADIAL†	73300.7	35.79	mg/L	0.292	35.79	mg/L	0.292	0.82%
Mg RADIAL†	2524.1	17.01	mg/L	0.121	17.01	mg/L	0.121	0.71%
Na RADIAL†	1863344.3	71.57	mg/L	0.315	71.57	mg/L	0.315	0.44%

Sequence No.: 19
Sample ID: 12J0421-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 10/15/2012 6:51:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17168914.1	4.701	mg/L	0.0041				0.09%
Y RADIAL	329923.4	4.892	mg/L	0.0428				0.87%
As 188.979†	35.3	0.0100	mg/L	0.00424	0.0100	mg/L	0.00424	42.65%
Tl 190.801†	-13.5	-0.0028	mg/L	0.00147	-0.0028	mg/L	0.00147	53.34%
Se 196.026†	22.1	0.0153	mg/L	0.00769	0.0153	mg/L	0.00769	50.42%
Zn 206.200†	8542.9	0.0777	mg/L	0.00039	0.0777	mg/L	0.00039	0.50%
Sb 206.836†	-20.0	-0.0043	mg/L	0.00199	-0.0043	mg/L	0.00199	46.12%
Pb 220.353†	9.1	0.0020	mg/L	0.00076	0.0020	mg/L	0.00076	38.35%
Cd 226.502†	1686.2	0.0066	mg/L	0.00002	0.0066	mg/L	0.00002	0.29%
Co 228.616†	677.2	0.0166	mg/L	0.00031	0.0166	mg/L	0.00031	1.88%
Ni 232.003†	5888.6	0.2657	mg/L	0.00279	0.2657	mg/L	0.00279	1.05%
Ba 233.527†	15075.7	0.0892	mg/L	0.00037	0.0892	mg/L	0.00037	0.41%
Mn 257.610†	2663494.1	2.839	mg/L	0.0156	2.839	mg/L	0.0156	0.55%
Cr 267.716†	384.4	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013	5.25%
Fe 273.955†	170731.5	6.752	mg/L	0.0658	6.752	mg/L	0.0658	0.97%
Mg 279.077†	955762.2	42.03	mg/L	0.189	42.03	mg/L	0.189	0.45%
V 292.402†	1207.4	0.0026	mg/L	0.00016	0.0026	mg/L	0.00016	6.03%
Al 308.215†	12649.6	0.3211	mg/L	0.00754	0.3211	mg/L	0.00754	2.35%
Be 313.107†	-722.1	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	20.67%
Cu 324.752†	1804.7	0.0009	mg/L	0.00015	0.0009	mg/L	0.00015	15.66%
Ag 338.289†	392.8	-0.0001	mg/L	0.00052	-0.0001	mg/L	0.00052	367.48%
Na 330.237†	217233.9	147.8	mg/L	1.46	147.8	mg/L	1.46	0.99%
Ca 227.546†	90722.9	165.3	mg/L	1.84	165.3	mg/L	1.84	1.11%
Al RADIAL†	1129.3	0.3320	mg/L	0.00721	0.3320	mg/L	0.00721	2.17%
Fe RADIAL†	994.4	6.804	mg/L	0.0752	6.804	mg/L	0.0752	1.11%
Ca RADIAL†	612068.6	175.1	mg/L	0.12	175.1	mg/L	0.12	0.07%
K RADIAL†	16687.1	8.148	mg/L	0.0800	8.148	mg/L	0.0800	0.98%
Mg RADIAL†	6379.3	42.99	mg/L	0.377	42.99	mg/L	0.377	0.88%
Na RADIAL†	3084623.5	118.5	mg/L	1.46	118.5	mg/L	1.46	1.23%

Sequence No.: 20
Sample ID: BJ20716-DUP1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 10/15/2012 6:56:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20716-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17196494.5	4.709	mg/L	0.0551				1.17%
Y RADIAL	321845.2	4.772	mg/L	0.0762				1.60%
As 188.979†	35.4	0.0100	mg/L	0.00031	0.0100	mg/L	0.00031	3.11%
Tl 190.801†	-17.0	-0.0036	mg/L	0.00272	-0.0036	mg/L	0.00272	75.43%
Se 196.026†	21.2	0.0148	mg/L	0.00218	0.0148	mg/L	0.00218	14.73%
Zn 206.200†	8493.4	0.0772	mg/L	0.00091	0.0772	mg/L	0.00091	1.17%
Sb 206.836†	-18.3	-0.0040	mg/L	0.00252	-0.0040	mg/L	0.00252	63.52%
Pb 220.353†	8.8	0.0019	mg/L	0.00073	0.0019	mg/L	0.00073	37.52%
Cd 226.502†	1698.5	0.0067	mg/L	0.00009	0.0067	mg/L	0.00009	1.34%
Co 228.616†	684.1	0.0168	mg/L	0.00047	0.0168	mg/L	0.00047	2.79%
Ni 232.003†	5873.1	0.2650	mg/L	0.00271	0.2650	mg/L	0.00271	1.02%
Ba 233.527†	15055.6	0.0891	mg/L	0.00102	0.0891	mg/L	0.00102	1.15%
Mn 257.610†	2652773.1	2.828	mg/L	0.0307	2.828	mg/L	0.0307	1.09%
Cr 267.716†	361.5	0.0023	mg/L	0.00005	0.0023	mg/L	0.00005	2.13%
Fe 273.955†	170407.4	6.739	mg/L	0.0559	6.739	mg/L	0.0559	0.83%
Mg 279.077†	952447.0	41.89	mg/L	0.456	41.89	mg/L	0.456	1.09%
V 292.402†	1159.1	0.0025	mg/L	0.00016	0.0025	mg/L	0.00016	6.59%
Al 308.215†	12146.9	0.3082	mg/L	0.00548	0.3082	mg/L	0.00548	1.78%
Be 313.107†	-361.4	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	85.64%
Cu 324.752†	1771.6	0.0009	mg/L	0.00025	0.0009	mg/L	0.00025	28.56%
Ag 338.289†	400.5	-0.0001	mg/L	0.00034	-0.0001	mg/L	0.00034	324.59%
Na 330.237†	215469.5	146.6	mg/L	0.89	146.6	mg/L	0.89	0.60%
Ca 227.546†	90407.6	164.8	mg/L	1.10	164.8	mg/L	1.10	0.66%
Al RADIAL†	1144.2	0.3364	mg/L	0.00802	0.3364	mg/L	0.00802	2.39%
Fe RADIAL†	1021.0	6.986	mg/L	0.1833	6.986	mg/L	0.1833	2.62%
Ca RADIAL†	607903.8	173.9	mg/L	0.40	173.9	mg/L	0.40	0.23%
K RADIAL†	17286.5	8.441	mg/L	0.1241	8.441	mg/L	0.1241	1.47%
Mg RADIAL†	6549.1	44.14	mg/L	0.919	44.14	mg/L	0.919	2.08%
Na RADIAL†	3158029.9	121.3	mg/L	0.45	121.3	mg/L	0.45	0.37%

Sequence No.: 21
Sample ID: BJ20716-MS1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 10/15/2012 7:01:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20716-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16989447.4	4.652	mg/L	0.0201				0.43%
Y RADIAL	318264.3	4.719	mg/L	0.0108				0.23%
As 188.979†	8927.0	2.267	mg/L	0.0042	2.267	mg/L	0.0042	0.19%
Tl 190.801†	8574.1	2.091	mg/L	0.0172	2.091	mg/L	0.0172	0.82%
Se 196.026†	5120.1	2.444	mg/L	0.0086	2.444	mg/L	0.0086	0.35%
Zn 206.200†	65149.8	0.5944	mg/L	0.00866	0.5944	mg/L	0.00866	1.46%
Sb 206.836†	1232.4	0.2664	mg/L	0.00444	0.2664	mg/L	0.00444	1.67%
Pb 220.353†	5117.5	0.5012	mg/L	0.00174	0.5012	mg/L	0.00174	0.35%
Cd 226.502†	12725.0	0.0583	mg/L	0.00007	0.0583	mg/L	0.00007	0.12%
Co 228.616†	22018.4	0.5400	mg/L	0.00260	0.5400	mg/L	0.00260	0.48%
Ni 232.003†	17741.3	0.7985	mg/L	0.00428	0.7985	mg/L	0.00428	0.54%
Ba 233.527†	371236.6	2.197	mg/L	0.0224	2.197	mg/L	0.0224	1.02%
Mn 257.610†	3154859.2	3.363	mg/L	0.0222	3.363	mg/L	0.0222	0.66%
Cr 267.716†	33380.6	0.2132	mg/L	0.00050	0.2132	mg/L	0.00050	0.24%
Fe 273.955†	193512.4	7.653	mg/L	0.0464	7.653	mg/L	0.0464	0.61%
Mg 279.077†	957951.5	42.13	mg/L	0.307	42.13	mg/L	0.307	0.73%
V 292.402†	197759.2	0.5145	mg/L	0.00224	0.5145	mg/L	0.00224	0.44%
Al 308.215†	93401.5	2.385	mg/L	0.0287	2.385	mg/L	0.0287	1.20%
Be 313.107†	267418.9	0.0520	mg/L	0.00050	0.0520	mg/L	0.00050	0.96%
Cu 324.752†	109165.1	0.2628	mg/L	0.00184	0.2628	mg/L	0.00184	0.70%

Ag 338.289†	12017.5	0.0472 mg/L	0.00036	0.0472 mg/L	0.00036	0.77%
Na 330.237†	212093.6	144.3 mg/L	0.68	144.3 mg/L	0.68	0.47%
Ca 227.546†	89712.9	163.5 mg/L	1.07	163.5 mg/L	1.07	0.66%
Al RADIAL†	8244.1	2.424 mg/L	0.0034	2.424 mg/L	0.0034	0.14%
Fe RADIAL†	1170.2	8.007 mg/L	0.0730	8.007 mg/L	0.0730	0.91%
Ca RADIAL†	610101.6	174.6 mg/L	0.80	174.6 mg/L	0.80	0.46%
K RADIAL†	17266.8	8.431 mg/L	0.0672	8.431 mg/L	0.0672	0.80%
Mg RADIAL†	6518.0	43.93 mg/L	0.274	43.93 mg/L	0.274	0.62%
Na RADIAL†	3166304.7	121.6 mg/L	1.03	121.6 mg/L	1.03	0.85%

Sequence No.: 22
Sample ID: 12J0421-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 10/15/2012 7:10:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17231831.9	4.718	mg/L	0.0233				0.49%
Y RADIAL	334585.5	4.961	mg/L	0.0536				1.08%
As 188.979†	27.4	0.0073	mg/L	0.00136	0.0073	mg/L	0.00136	18.62%
Tl 190.801†	85.7	0.0211	mg/L	0.00196	0.0211	mg/L	0.00196	9.29%
Se 196.026†	33.4	0.0175	mg/L	0.00163	0.0175	mg/L	0.00163	9.28%
Zn 206.200†	3737.3	0.0340	mg/L	0.00043	0.0340	mg/L	0.00043	1.25%
Sb 206.836†	-15.9	-0.0035	mg/L	0.00226	-0.0035	mg/L	0.00226	65.47%
Pb 220.353†	63.4	0.0081	mg/L	0.00136	0.0081	mg/L	0.00136	16.77%
Cd 226.502†	136.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	39.34%
Co 228.616†	173.3	0.0043	mg/L	0.00017	0.0043	mg/L	0.00017	4.04%
Ni 232.003†	401.7	0.0184	mg/L	0.00095	0.0184	mg/L	0.00095	5.13%
Ba 233.527†	27365.7	0.1620	mg/L	0.00070	0.1620	mg/L	0.00070	0.43%
Mn 257.610†	13457277.1	14.35	mg/L	0.044	14.35	mg/L	0.044	0.30%
Cr 267.716†	480.2	0.0031	mg/L	0.00012	0.0031	mg/L	0.00012	3.77%
Fe 273.955†	58408.2	2.310	mg/L	0.0228	2.310	mg/L	0.0228	0.99%
Mg 279.077†	499848.3	21.98	mg/L	0.115	21.98	mg/L	0.115	0.52%
V 292.402†	1310.0	0.0032	mg/L	0.00009	0.0032	mg/L	0.00009	2.75%
Al 308.215†	46586.6	1.188	mg/L	0.0090	1.188	mg/L	0.0090	0.76%
Be 313.107†	-253.2	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	98.61%
Cu 324.752†	4032.9	0.0062	mg/L	0.00030	0.0062	mg/L	0.00030	4.86%
Ag 338.289†	310.2	-0.0006	mg/L	0.00013	-0.0006	mg/L	0.00013	21.46%
Na 330.237†	182334.5	124.1	mg/L	0.56	124.1	mg/L	0.56	0.45%
Ca 227.546†	97719.3	178.1	mg/L	0.06	178.1	mg/L	0.06	0.03%
Al RADIAL†	4180.7	1.229	mg/L	0.0204	1.229	mg/L	0.0204	1.66%
Fe RADIAL†	345.5	2.364	mg/L	0.0124	2.364	mg/L	0.0124	0.53%
Ca RADIAL†	649651.0	185.9	mg/L	3.61	185.9	mg/L	3.61	1.94%
K RADIAL†	20543.3	10.03	mg/L	0.036	10.03	mg/L	0.036	0.35%
Mg RADIAL†	3259.7	21.97	mg/L	0.166	21.97	mg/L	0.166	0.76%
Na RADIAL†	2676282.1	102.8	mg/L	2.13	102.8	mg/L	2.13	2.08%

Sequence No.: 23
Sample ID: CCV-2
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 7:16:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17607306.2	4.821	mg/L	0.0567				1.18%
Y RADIAL	324200.3	4.807	mg/L	0.0172				0.36%
As 188.979†	931.7	0.2372	mg/L	0.00156	0.2372	mg/L	0.00156	0.66%
Tl 190.801†	989.5	0.2417	mg/L	0.00434	0.2417	mg/L	0.00434	1.80%
Se 196.026†	512.9	0.2478	mg/L	0.00375	0.2478	mg/L	0.00375	1.51%
Zn 206.200†	277560.9	2.534	mg/L	0.0525	2.534	mg/L	0.0525	2.07%
Sb 206.836†	1150.6	0.2486	mg/L	0.00240	0.2486	mg/L	0.00240	0.97%
Pb 220.353†	2580.0	0.2526	mg/L	0.00322	0.2526	mg/L	0.00322	1.28%
Cd 226.502†	26357.2	0.1229	mg/L	0.00255	0.1229	mg/L	0.00255	2.08%
Co 228.616†	103169.4	2.530	mg/L	0.0483	2.530	mg/L	0.0483	1.91%

Ni 232.003†	55084.4	2.476 mg/L	0.0397	2.476 mg/L	0.0397	1.60%
Ba 233.527†	1713175.2	10.14 mg/L	0.125	10.14 mg/L	0.125	1.23%
Mn 257.610†	2339119.0	2.494 mg/L	0.0323	2.494 mg/L	0.0323	1.30%
Cr 267.716†	156001.5	0.9962 mg/L	0.01646	0.9962 mg/L	0.01646	1.65%
Fe 273.955†	126958.7	5.021 mg/L	0.0871	5.021 mg/L	0.0871	1.73%
Mg 279.077†	557962.0	24.54 mg/L	0.240	24.54 mg/L	0.240	0.98%
V 292.402†	935799.2	2.437 mg/L	0.0415	2.437 mg/L	0.0415	1.70%
Al 308.215†	374676.3	9.577 mg/L	0.1462	9.577 mg/L	0.1462	1.53%
Be 313.107†	1261086.2	0.2453 mg/L	0.00402	0.2453 mg/L	0.00402	1.64%
Cu 324.752†	495549.1	1.208 mg/L	0.0125	1.208 mg/L	0.0125	1.03%
Ag 338.289†	303089.3	1.233 mg/L	0.0175	1.233 mg/L	0.0175	1.42%
Na 330.237†	33673.0	22.93 mg/L	0.410	22.93 mg/L	0.410	1.79%
Ca 227.546†	13292.5	24.25 mg/L	0.276	24.25 mg/L	0.276	1.14%
Al RADIAL†	33536.6	9.859 mg/L	0.0681	9.859 mg/L	0.0681	0.69%
Fe RADIAL†	727.0	4.974 mg/L	0.0502	4.974 mg/L	0.0502	1.01%
Ca RADIAL†	88900.5	25.44 mg/L	0.360	25.44 mg/L	0.360	1.42%
K RADIAL†	10045.3	4.905 mg/L	0.0538	4.905 mg/L	0.0538	1.10%
Mg RADIAL†	3705.0	24.97 mg/L	0.178	24.97 mg/L	0.178	0.71%
Na RADIAL†	640490.5	24.60 mg/L	0.038	24.60 mg/L	0.038	0.15%

Sequence No.: 24
Sample ID: CCB-2
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/15/2012 7:24:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18426609.1	5.045	mg/L	0.0270				0.54%
Y RADIAL	334484.1	4.959	mg/L	0.0363				0.73%
As 188.979†	-3.1	-0.0008	mg/L	0.00039	-0.0008	mg/L	0.00039	49.69%
Tl 190.801†	-2.3	-0.0005	mg/L	0.00083	-0.0005	mg/L	0.00083	150.01%
Se 196.026†	-5.2	-0.0025	mg/L	0.00084	-0.0025	mg/L	0.00084	33.61%
Zn 206.200†	13.0	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	209.41%
Sb 206.836†	1.4	0.0003	mg/L	0.00123	0.0003	mg/L	0.00123	411.38%
Pb 220.353†	-6.4	-0.0006	mg/L	0.00025	-0.0006	mg/L	0.00025	39.29%
Cd 226.502†	13.6	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	91.47%
Co 228.616†	19.2	0.0005	mg/L	0.00018	0.0005	mg/L	0.00018	37.65%
Ni 232.003†	-2.0	-0.0001	mg/L	0.00039	-0.0001	mg/L	0.00039	423.19%
Ba 233.527†	210.8	0.0012	mg/L	0.00006	0.0012	mg/L	0.00006	4.93%
Mn 257.610†	311.8	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	5.38%
Cr 267.716†	6.7	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	110.55%
Fe 273.955†	15.6	0.0006	mg/L	0.00062	0.0006	mg/L	0.00062	100.74%
Mg 279.077†	45.2	0.0020	mg/L	0.00060	0.0020	mg/L	0.00060	29.97%
V 292.402†	167.0	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	16.52%
Al 308.215†	-86.4	-0.0022	mg/L	0.00142	-0.0022	mg/L	0.00142	64.23%
Be 313.107†	555.4	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	66.63%
Cu 324.752†	-125.8	-0.0003	mg/L	0.00018	-0.0003	mg/L	0.00018	58.31%
Ag 338.289†	62.1	0.0003	mg/L	0.00047	0.0003	mg/L	0.00047	187.65%
Na 330.237†	29.1	0.0198	mg/L	0.02365	0.0198	mg/L	0.02365	119.74%
Ca 227.546†	7.0	0.0127	mg/L	0.02133	0.0127	mg/L	0.02133	167.55%
Al RADIAL†	8.4	0.0025	mg/L	0.00581	0.0025	mg/L	0.00581	236.11%
Fe RADIAL†	-2.5	-0.0174	mg/L	0.00565	-0.0174	mg/L	0.00565	32.45%
Ca RADIAL†	66.6	0.0191	mg/L	0.00323	0.0191	mg/L	0.00323	16.94%
K RADIAL†	23.5	0.0115	mg/L	0.03007	0.0115	mg/L	0.03007	261.51%
Mg RADIAL†	-0.6	-0.0042	mg/L	0.01658	-0.0042	mg/L	0.01658	393.69%
Na RADIAL†	103.2	0.0040	mg/L	0.02291	0.0040	mg/L	0.02291	578.00%

Sequence No.: 25
Sample ID: 12J0421-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 10/15/2012 7:30:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	16684115.6	4.568 mg/L	0.0246			0.54%
Y RADIAL	325000.1	4.819 mg/L	0.0230			0.48%
As 188.979†	13.1	0.0036 mg/L	0.00118	0.0036 mg/L	0.00118	33.06%
Tl 190.801†	1.1	0.0004 mg/L	0.00094	0.0004 mg/L	0.00094	236.43%
Se 196.026†	2.8	0.0025 mg/L	0.00055	0.0025 mg/L	0.00055	22.24%
Zn 206.200†	2914.9	0.0265 mg/L	0.00044	0.0265 mg/L	0.00044	1.68%
Sb 206.836†	-8.9	-0.0019 mg/L	0.00124	-0.0019 mg/L	0.00124	64.53%
Pb 220.353†	-0.9	0.0017 mg/L	0.00098	0.0017 mg/L	0.00098	56.74%
Cd 226.502†	71.6	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	645.34%
Co 228.616†	60.1	0.0015 mg/L	0.00019	0.0015 mg/L	0.00019	12.73%
Ni 232.003†	73.9	0.0036 mg/L	0.00080	0.0036 mg/L	0.00080	22.43%
Ba 233.527†	53192.4	0.3148 mg/L	0.00194	0.3148 mg/L	0.00194	0.62%
Mn 257.610†	358564.0	0.3817 mg/L	0.00192	0.3817 mg/L	0.00192	0.50%
Cr 267.716†	190.3	0.0012 mg/L	0.00010	0.0012 mg/L	0.00010	8.63%
Fe 273.955†	41296.6	1.633 mg/L	0.0055	1.633 mg/L	0.0055	0.34%
Mg 279.077†	906897.3	39.88 mg/L	0.230	39.88 mg/L	0.230	0.58%
V 292.402†	509.1	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011	9.40%
Al 308.215†	8853.0	0.2236 mg/L	0.00209	0.2236 mg/L	0.00209	0.93%
Be 313.107†	-386.9	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	82.83%
Cu 324.752†	1116.9	-0.0011 mg/L	0.00021	-0.0011 mg/L	0.00021	20.24%
Ag 338.289†	555.4	0.0005 mg/L	0.00045	0.0005 mg/L	0.00045	96.24%
Na 330.237†	381432.1	259.3 mg/L	0.90	259.3 mg/L	0.90	0.35%
Ca 227.546†	93474.0	170.3 mg/L	0.63	170.3 mg/L	0.63	0.37%
Al RADIAL†	675.0	0.1984 mg/L	0.00807	0.1984 mg/L	0.00807	4.07%
Fe RADIAL†	240.5	1.646 mg/L	0.0351	1.646 mg/L	0.0351	2.13%
Ca RADIAL†	620112.4	177.4 mg/L	0.66	177.4 mg/L	0.66	0.37%
K RADIAL†	7858.1	3.837 mg/L	0.0140	3.837 mg/L	0.0140	0.36%
Mg RADIAL†	5887.7	39.68 mg/L	0.369	39.68 mg/L	0.369	0.93%
Na RADIAL†	4970597.5	190.9 mg/L	1.83	190.9 mg/L	1.83	0.96%

Sequence No.: 26
Sample ID: 12J0421-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 10/15/2012 7:35:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16211166.9	4.439	mg/L	0.0327				0.74%
Y RADIAL	314821.1	4.668	mg/L	0.0448				0.96%
As 188.979†	110.6	0.0293	mg/L	0.00124	0.0293	mg/L	0.00124	4.25%
Tl 190.801†	-12.4	-0.0024	mg/L	0.00074	-0.0024	mg/L	0.00074	31.35%
Se 196.026†	1.6	0.0065	mg/L	0.00204	0.0065	mg/L	0.00204	31.20%
Zn 206.200†	3429.6	0.0309	mg/L	0.00024	0.0309	mg/L	0.00024	0.78%
Sb 206.836†	-15.0	-0.0033	mg/L	0.00120	-0.0033	mg/L	0.00120	36.96%
Pb 220.353†	46.3	0.0058	mg/L	0.00161	0.0058	mg/L	0.00161	27.88%
Cd 226.502†	207.3	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009	16.02%
Co 228.616†	156.8	0.0038	mg/L	0.00004	0.0038	mg/L	0.00004	1.16%
Ni 232.003†	95.3	0.0056	mg/L	0.00063	0.0056	mg/L	0.00063	11.22%
Ba 233.527†	43072.5	0.2549	mg/L	0.00217	0.2549	mg/L	0.00217	0.85%
Mn 257.610†	1874537.0	1.998	mg/L	0.0230	1.998	mg/L	0.0230	1.15%
Cr 267.716†	23.5	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	123.51%
Fe 273.955†	208008.4	8.226	mg/L	0.0648	8.226	mg/L	0.0648	0.79%
Mg 279.077†	919260.0	40.43	mg/L	0.428	40.43	mg/L	0.428	1.06%
V 292.402†	1301.5	0.0027	mg/L	0.00015	0.0027	mg/L	0.00015	5.42%
Al 308.215†	19790.2	0.5034	mg/L	0.00678	0.5034	mg/L	0.00678	1.35%
Be 313.107†	-440.1	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	35.98%
Cu 324.752†	3723.7	0.0052	mg/L	0.00019	0.0052	mg/L	0.00019	3.72%
Ag 338.289†	411.6	-0.0004	mg/L	0.00033	-0.0004	mg/L	0.00033	88.52%
Na 330.237†	990216.4	672.7	mg/L	7.87	672.7	mg/L	7.87	1.17%
Ca 227.546†	106471.9	194.0	mg/L	1.17	194.0	mg/L	1.17	0.60%
Al RADIAL†	1649.4	0.4849	mg/L	0.00300	0.4849	mg/L	0.00300	0.62%
Fe RADIAL†	1225.0	8.382	mg/L	0.0396	8.382	mg/L	0.0396	0.47%
Ca RADIAL†	696465.5	199.3	mg/L	0.22	199.3	mg/L	0.22	0.11%
K RADIAL†	13006.4	6.351	mg/L	0.0437	6.351	mg/L	0.0437	0.69%
Mg RADIAL†	6200.0	41.78	mg/L	0.294	41.78	mg/L	0.294	0.70%
Na RADIAL†	10307138.4	395.9	mg/L	3.47	395.9	mg/L	3.47	0.88%

Sequence No.: 27
Sample ID: 12J0421-05
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 10/15/2012 7:40:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16555799.2	4.533	mg/L	0.0443				0.98%
Y RADIAL	320250.8	4.748	mg/L	0.0221				0.47%
As 188.979†	12.9	0.0033	mg/L	0.00362	0.0033	mg/L	0.00362	108.57%
Tl 190.801†	-14.6	-0.0035	mg/L	0.00169	-0.0035	mg/L	0.00169	48.12%
Se 196.026†	13.2	0.0065	mg/L	0.00225	0.0065	mg/L	0.00225	34.41%
Zn 206.200†	2146.8	0.0196	mg/L	0.00010	0.0196	mg/L	0.00010	0.50%
Sb 206.836†	-8.5	-0.0018	mg/L	0.00081	-0.0018	mg/L	0.00081	44.06%
Pb 220.353†	-24.5	-0.0004	mg/L	0.00216	-0.0004	mg/L	0.00216	502.05%
Cd 226.502†	30.4	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	171.38%
Co 228.616†	29.9	0.0007	mg/L	0.00018	0.0007	mg/L	0.00018	24.29%
Ni 232.003†	68.3	0.0031	mg/L	0.00016	0.0031	mg/L	0.00016	4.97%
Ba 233.527†	8026.6	0.0475	mg/L	0.00031	0.0475	mg/L	0.00031	0.66%
Mn 257.610†	253545.2	0.2699	mg/L	0.00255	0.2699	mg/L	0.00255	0.94%
Cr 267.716†	35.8	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	75.63%
Fe 273.955†	8964.1	0.3545	mg/L	0.00227	0.3545	mg/L	0.00227	0.64%
Mg 279.077†	581555.2	25.57	mg/L	0.288	25.57	mg/L	0.288	1.13%
V 292.402†	197.5	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	14.94%
Al 308.215†	2225.1	0.0544	mg/L	0.00504	0.0544	mg/L	0.00504	9.26%
Be 313.107†	-661.8	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	53.73%
Cu 324.752†	1720.1	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	41.77%
Ag 338.289†	404.6	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	80.98%
Na 330.237†	490148.5	333.1	mg/L	4.37	333.1	mg/L	4.37	1.31%
Ca 227.546†	93534.5	170.4	mg/L	2.08	170.4	mg/L	2.08	1.22%
Al RADIAL†	171.8	0.0505	mg/L	0.00355	0.0505	mg/L	0.00355	7.04%
Fe RADIAL†	50.8	0.3475	mg/L	0.01807	0.3475	mg/L	0.01807	5.20%
Ca RADIAL†	622063.4	178.0	mg/L	0.34	178.0	mg/L	0.34	0.19%
K RADIAL†	20632.6	10.07	mg/L	0.128	10.07	mg/L	0.128	1.27%
Mg RADIAL†	3810.5	25.68	mg/L	0.101	25.68	mg/L	0.101	0.39%
Na RADIAL†	6086897.3	233.8	mg/L	1.60	233.8	mg/L	1.60	0.69%

Sequence No.: 28
Sample ID: 12J0421-06
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 10/15/2012 7:46:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0421-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17291344.3	4.735	mg/L	0.0398				0.84%
Y RADIAL	324161.6	4.806	mg/L	0.0221				0.46%
As 188.979†	17.9	0.0049	mg/L	0.00179	0.0049	mg/L	0.00179	36.80%
Tl 190.801†	87.0	0.0214	mg/L	0.00326	0.0214	mg/L	0.00326	15.23%
Se 196.026†	32.5	0.0171	mg/L	0.00395	0.0171	mg/L	0.00395	23.14%
Zn 206.200†	4718.1	0.0429	mg/L	0.00073	0.0429	mg/L	0.00073	1.69%
Sb 206.836†	-18.3	-0.0040	mg/L	0.00082	-0.0040	mg/L	0.00082	20.74%
Pb 220.353†	38.6	0.0057	mg/L	0.00038	0.0057	mg/L	0.00038	6.58%
Cd 226.502†	143.9	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	60.85%
Co 228.616†	180.8	0.0044	mg/L	0.00023	0.0044	mg/L	0.00023	5.16%
Ni 232.003†	411.8	0.0189	mg/L	0.00115	0.0189	mg/L	0.00115	6.08%
Ba 233.527†	27724.8	0.1641	mg/L	0.00195	0.1641	mg/L	0.00195	1.19%
Mn 257.610†	13408465.2	14.30	mg/L	0.084	14.30	mg/L	0.084	0.58%
Cr 267.716†	517.3	0.0033	mg/L	0.00018	0.0033	mg/L	0.00018	5.39%
Fe 273.955†	57115.5	2.259	mg/L	0.0307	2.259	mg/L	0.0307	1.36%
Mg 279.077†	500361.3	22.00	mg/L	0.183	22.00	mg/L	0.183	0.83%
V 292.402†	1297.2	0.0032	mg/L	0.00013	0.0032	mg/L	0.00013	4.13%
Al 308.215†	50144.2	1.279	mg/L	0.0238	1.279	mg/L	0.0238	1.86%
Be 313.107†	58.2	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	387.28%
Cu 324.752†	4535.9	0.0074	mg/L	0.00013	0.0074	mg/L	0.00013	1.83%
Ag 338.289†	367.1	-0.0004	mg/L	0.00049	-0.0004	mg/L	0.00049	122.23%

Na 330.237†	184394.3	125.5 mg/L	1.17	125.5 mg/L	1.17	0.94%
Ca 227.546†	98721.0	179.9 mg/L	2.05	179.9 mg/L	2.05	1.14%
Al RADIAL†	4491.0	1.320 mg/L	0.0199	1.320 mg/L	0.0199	1.50%
Fe RADIAL†	346.3	2.370 mg/L	0.0179	2.370 mg/L	0.0179	0.76%
Ca RADIAL†	668022.2	191.2 mg/L	0.65	191.2 mg/L	0.65	0.34%
K RADIAL†	21469.5	10.48 mg/L	0.042	10.48 mg/L	0.042	0.40%
Mg RADIAL†	3379.8	22.78 mg/L	0.090	22.78 mg/L	0.090	0.39%
Na RADIAL†	2762779.9	106.1 mg/L	0.09	106.1 mg/L	0.09	0.09%

Sequence No.: 29
Sample ID: 12J0423-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 10/15/2012 7:51:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0423-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17020561.3	4.660	mg/L	0.0385				0.83%
Y RADIAL	331368.1	4.913	mg/L	0.0459				0.93%
As 188.979†	-6.5	0.0073	mg/L	0.00281	0.0073	mg/L	0.00281	38.59%
Tl 190.801†	64.6	0.0209	mg/L	0.00342	0.0209	mg/L	0.00342	16.38%
Se 196.026†	-70.3	0.0092	mg/L	0.00043	0.0092	mg/L	0.00043	4.74%
Zn 206.200†	134711.2	1.226	mg/L	0.0115	1.226	mg/L	0.0115	0.94%
Sb 206.836†	-29.0	-0.0067	mg/L	0.00113	-0.0067	mg/L	0.00113	16.94%
Pb 220.353†	3337.6	0.3234	mg/L	0.00295	0.3234	mg/L	0.00295	0.91%
Cd 226.502†	1765.0	-0.0032	mg/L	0.00023	-0.0032	mg/L	0.00023	7.26%
Co 228.616†	637.0	0.0156	mg/L	0.00036	0.0156	mg/L	0.00036	2.30%
Ni 232.003†	2819.2	0.1366	mg/L	0.00303	0.1366	mg/L	0.00303	2.22%
Ba 233.527†	6085.5	0.0360	mg/L	0.00033	0.0360	mg/L	0.00033	0.91%
Mn 257.610†	838229.6	0.8967	mg/L	0.00810	0.8967	mg/L	0.00810	0.90%
Cr 267.716†	8875.0	0.0567	mg/L	0.00057	0.0567	mg/L	0.00057	1.01%
Fe 273.955†	1534773.5	60.70	mg/L	0.662	60.70	mg/L	0.662	1.09%
Mg 279.077†	423202.1	18.61	mg/L	0.186	18.61	mg/L	0.186	1.00%
V 292.402†	13326.3	0.0298	mg/L	0.00008	0.0298	mg/L	0.00008	0.27%
Al 308.215†	1067409.2	27.29	mg/L	0.272	27.29	mg/L	0.272	1.00%
Be 313.107†	3958.0	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	9.36%
Cu 324.752†	21155529.1	51.59	mg/L	0.134	51.59	mg/L	0.134	0.26%
Ag 338.289†	-658.3	-0.0050	mg/L	0.00049	-0.0050	mg/L	0.00049	9.79%
Na 330.237†	259847.6	177.1	mg/L	1.48	177.1	mg/L	1.48	0.83%
Ca 227.546†	120796.9	220.4	mg/L	2.07	220.4	mg/L	2.07	0.94%
Al RADIAL†	88483.5	26.01	mg/L	0.156	26.01	mg/L	0.156	0.60%
Fe RADIAL†	9119.8	62.40	mg/L	0.360	62.40	mg/L	0.360	0.58%
Ca RADIAL†	802749.9	229.7	mg/L	0.87	229.7	mg/L	0.87	0.38%
K RADIAL†	35261.8	17.22	mg/L	0.167	17.22	mg/L	0.167	0.97%
Mg RADIAL†	2768.7	18.66	mg/L	0.122	18.66	mg/L	0.122	0.65%
Na RADIAL†	3572175.4	137.2	mg/L	1.75	137.2	mg/L	1.75	1.28%

Sequence No.: 30
Sample ID: 12J0423-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 10/15/2012 8:00:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0423-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16926018.9	4.635	mg/L	0.0450				0.97%
Y RADIAL	327243.8	4.852	mg/L	0.0213				0.44%
As 188.979†	5.8	0.0026	mg/L	0.00210	0.0026	mg/L	0.00210	80.53%
Tl 190.801†	-16.9	-0.0034	mg/L	0.00205	-0.0034	mg/L	0.00205	59.36%
Se 196.026†	2.7	0.0067	mg/L	0.00266	0.0067	mg/L	0.00266	40.03%
Zn 206.200†	30610.5	0.2790	mg/L	0.00306	0.2790	mg/L	0.00306	1.10%
Sb 206.836†	8.4	0.0017	mg/L	0.00185	0.0017	mg/L	0.00185	106.07%
Pb 220.353†	5449.8	0.5366	mg/L	0.00306	0.5366	mg/L	0.00306	0.57%
Cd 226.502†	444.4	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	4.85%
Co 228.616†	311.5	0.0076	mg/L	0.00029	0.0076	mg/L	0.00029	3.74%
Ni 232.003†	939.1	0.0435	mg/L	0.00070	0.0435	mg/L	0.00070	1.60%

Ba 233.527†	15109.4	0.0894 mg/L	0.00105	0.0894 mg/L	0.00105	1.17%
Mn 257.610†	361289.8	0.3851 mg/L	0.00396	0.3851 mg/L	0.00396	1.03%
Cr 267.716†	4040.5	0.0258 mg/L	0.00033	0.0258 mg/L	0.00033	1.27%
Fe 273.955†	193545.3	7.654 mg/L	0.0901	7.654 mg/L	0.0901	1.18%
Mg 279.077†	612250.5	26.92 mg/L	0.267	26.92 mg/L	0.267	0.99%
V 292.402†	3055.6	0.0073 mg/L	0.00007	0.0073 mg/L	0.00007	0.98%
Al 308.215†	171533.9	4.380 mg/L	0.0485	4.380 mg/L	0.0485	1.11%
Be 313.107†	-1.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	>999.9%
Cu 324.752†	188458.6	0.4518 mg/L	0.00586	0.4518 mg/L	0.00586	1.30%
Ag 338.289†	654.2	-0.0015 mg/L	0.00034	-0.0015 mg/L	0.00034	22.81%
Na 330.237†	236763.8	161.5 mg/L	1.26	161.5 mg/L	1.26	0.78%
Ca 227.546†	216739.7	394.9 mg/L	3.72	394.9 mg/L	3.72	0.94%
Al RADIAL†	14378.5	4.227 mg/L	0.0092	4.227 mg/L	0.0092	0.22%
Fe RADIAL†	1160.1	7.937 mg/L	0.0391	7.937 mg/L	0.0391	0.49%
Ca RADIAL†	1402624.4	401.4 mg/L	0.33	401.4 mg/L	0.33	0.08%
K RADIAL†	197190.1	96.29 mg/L	0.203	96.29 mg/L	0.203	0.21%
Mg RADIAL†	4092.8	27.58 mg/L	0.043	27.58 mg/L	0.043	0.16%
Na RADIAL†	3242780.0	124.6 mg/L	0.29	124.6 mg/L	0.29	0.24%

Sequence No.: 31
Sample ID: 12J0424-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 10/15/2012 8:05:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0424-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18341236.4	5.022	mg/L	0.0245				0.49%
Y RADIAL	340844.1	5.054	mg/L	0.0646				1.28%
As 188.979†	5.7	0.0015	mg/L	0.00204	0.0015	mg/L	0.00204	139.29%
Tl 190.801†	7.4	0.0018	mg/L	0.00021	0.0018	mg/L	0.00021	11.87%
Se 196.026†	-0.6	-0.0002	mg/L	0.00125	-0.0002	mg/L	0.00125	573.40%
Zn 206.200†	13781.8	0.1258	mg/L	0.00119	0.1258	mg/L	0.00119	0.95%
Sb 206.836†	-7.4	-0.0016	mg/L	0.00062	-0.0016	mg/L	0.00062	38.61%
Pb 220.353†	5.8	0.0006	mg/L	0.00034	0.0006	mg/L	0.00034	52.52%
Cd 226.502†	54.2	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	25.83%
Co 228.616†	50.4	0.0012	mg/L	0.00007	0.0012	mg/L	0.00007	5.55%
Ni 232.003†	25.5	0.0012	mg/L	0.00060	0.0012	mg/L	0.00060	51.75%
Ba 233.527†	3601.5	0.0213	mg/L	0.00013	0.0213	mg/L	0.00013	0.62%
Mn 257.610†	424500.1	0.4526	mg/L	0.00399	0.4526	mg/L	0.00399	0.88%
Cr 267.716†	-10.7	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	133.16%
Fe 273.955†	1967.4	0.0778	mg/L	0.00017	0.0778	mg/L	0.00017	0.22%
Mg 279.077†	71823.2	3.159	mg/L	0.0302	3.159	mg/L	0.0302	0.95%
V 292.402†	3.5	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	>999.9%
Al 308.215†	-1224.8	-0.0315	mg/L	0.00058	-0.0315	mg/L	0.00058	1.84%
Be 313.107†	743.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	43.97%
Cu 324.752†	930.0	0.0021	mg/L	0.00032	0.0021	mg/L	0.00032	15.35%
Ag 338.289†	126.9	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	37.62%
Na 330.237†	26003.2	17.67	mg/L	0.197	17.67	mg/L	0.197	1.12%
Ca 227.546†	4233.8	7.714	mg/L	0.0268	7.714	mg/L	0.0268	0.35%
Al RADIAL†	-103.9	-0.0305	mg/L	0.00160	-0.0305	mg/L	0.00160	5.24%
Fe RADIAL†	10.8	0.0737	mg/L	0.01327	0.0737	mg/L	0.01327	18.00%
Ca RADIAL†	28730.3	8.221	mg/L	0.1394	8.221	mg/L	0.1394	1.70%
K RADIAL†	2891.2	1.412	mg/L	0.0070	1.412	mg/L	0.0070	0.50%
Mg RADIAL†	461.0	3.107	mg/L	0.0557	3.107	mg/L	0.0557	1.79%
Na RADIAL†	493991.8	18.97	mg/L	0.063	18.97	mg/L	0.063	0.33%

Sequence No.: 32
Sample ID: 12J0424-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 10/15/2012 8:11:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0424-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18198055.5	4.983	mg/L	0.0241				0.48%

Y RADIAL	339463.0	5.033 mg/L	0.0212			0.42%
As 188.979†	1.3	0.0005 mg/L	0.00184	0.0005 mg/L	0.00184	393.25%
Tl 190.801†	0.7	0.0002 mg/L	0.00232	0.0002 mg/L	0.00232	962.68%
Se 196.026†	-5.9	-0.0022 mg/L	0.00187	-0.0022 mg/L	0.00187	86.76%
Zn 206.200†	17671.9	0.1613 mg/L	0.00012	0.1613 mg/L	0.00012	0.08%
Sb 206.836†	1.1	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	47.38%
Pb 220.353†	26.6	0.0026 mg/L	0.00165	0.0026 mg/L	0.00165	64.42%
Cd 226.502†	65.9	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	56.36%
Co 228.616†	53.1	0.0013 mg/L	0.00016	0.0013 mg/L	0.00016	11.92%
Ni 232.003†	19.0	0.0010 mg/L	0.00064	0.0010 mg/L	0.00064	63.96%
Ba 233.527†	3644.3	0.0216 mg/L	0.00012	0.0216 mg/L	0.00012	0.58%
Mn 257.610†	427085.8	0.4554 mg/L	0.00155	0.4554 mg/L	0.00155	0.34%
Cr 267.716†	48.1	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	28.97%
Fe 273.955†	23463.8	0.9280 mg/L	0.00583	0.9280 mg/L	0.00583	0.63%
Mg 279.077†	72072.5	3.170 mg/L	0.0102	3.170 mg/L	0.0102	0.32%
V 292.402†	429.4	0.0010 mg/L	0.00016	0.0010 mg/L	0.00016	15.19%
Al 308.215†	-1128.4	-0.0289 mg/L	0.00380	-0.0289 mg/L	0.00380	13.14%
Be 313.107†	723.4	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	14.50%
Cu 324.752†	1434.9	0.0034 mg/L	0.00018	0.0034 mg/L	0.00018	5.38%
Ag 338.289†	135.7	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	13.97%
Na 330.237†	26099.7	17.74 mg/L	0.062	17.74 mg/L	0.062	0.35%
Ca 227.546†	4218.6	7.691 mg/L	0.0553	7.691 mg/L	0.0553	0.72%
Al RADIAL†	-95.4	-0.0280 mg/L	0.00298	-0.0280 mg/L	0.00298	10.62%
Fe RADIAL†	135.2.	0.9250 mg/L	0.01037	0.9250 mg/L	0.01037	1.12%
Ca RADIAL†	28504.4	8.156 mg/L	0.0079	8.156 mg/L	0.0079	0.10%
K RADIAL†	2856.0	1.395 mg/L	0.0248	1.395 mg/L	0.0248	1.78%
Mg RADIAL†	467.3	3.149 mg/L	0.0545	3.149 mg/L	0.0545	1.73%
Na RADIAL†	493629.9	18.96 mg/L	0.049	18.96 mg/L	0.049	0.26%

Sequence No.: 33
Sample ID: 12J0424-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 10/15/2012 8:16:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0424-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	18049883.4	4.942	mg/L	0.0259				0.52%
Y RADIAL	338540.3	5.020	mg/L	0.0080				0.16%
As 188.979†	-0.9	-0.0002	mg/L	0.00199	-0.0002	mg/L	0.00199	910.48%
Tl 190.801†	-2.8	-0.0007	mg/L	0.00107	-0.0007	mg/L	0.00107	159.30%
Se 196.026†	-7.0	-0.0033	mg/L	0.00181	-0.0033	mg/L	0.00181	54.74%
Zn 206.200†	1201.4	0.0110	mg/L	0.00011	0.0110	mg/L	0.00011	0.98%
Sb 206.836†	-8.8	-0.0019	mg/L	0.00027	-0.0019	mg/L	0.00027	14.32%
Pb 220.353†	-2.1	-0.0001	mg/L	0.00081	-0.0001	mg/L	0.00081	609.58%
Cd 226.502†	39.7	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	38.43%
Co 228.616†	18.9	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	23.51%
Ni 232.003†	-6.0	-0.0003	mg/L	0.00059	-0.0003	mg/L	0.00059	229.89%
Ba 233.527†	2807.8	0.0166	mg/L	0.00013	0.0166	mg/L	0.00013	0.80%
Mn 257.610†	126457.5	0.1348	mg/L	0.00072	0.1348	mg/L	0.00072	0.53%
Cr 267.716†	-0.5	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%
Fe 273.955†	1647.9	0.0652	mg/L	0.00111	0.0652	mg/L	0.00111	1.71%
Mg 279.077†	73049.9	3.213	mg/L	0.0213	3.213	mg/L	0.0213	0.66%
V 292.402†	70.0	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	122.05%
Al 308.215†	-1226.9	-0.0315	mg/L	0.00077	-0.0315	mg/L	0.00077	2.44%
Be 313.107†	179.2	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	138.60%
Cu 324.752†	217.7	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	49.31%
Ag 338.289†	46.5	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	122.30%
Na 330.237†	27316.7	18.56	mg/L	0.046	18.56	mg/L	0.046	0.25%
Ca 227.546†	4148.5	7.559	mg/L	0.0808	7.559	mg/L	0.0808	1.07%
Al RADIAL†	-124.6	-0.0366	mg/L	0.00190	-0.0366	mg/L	0.00190	5.18%
Fe RADIAL†	11.3	0.0771	mg/L	0.01164	0.0771	mg/L	0.01164	15.09%
Ca RADIAL†	27775.8	7.948	mg/L	0.0727	7.948	mg/L	0.0727	0.91%
K RADIAL†	2840.9	1.387	mg/L	0.0191	1.387	mg/L	0.0191	1.38%
Mg RADIAL†	454.9	3.065	mg/L	0.0223	3.065	mg/L	0.0223	0.73%
Na RADIAL†	503345.7	19.33	mg/L	0.110	19.33	mg/L	0.110	0.57%

Sequence No.: 34 **Autosampler Location: 28**

Sample ID: 12J0424-02
Analyst: MW
Initial Sample Wt:
Dilution:

Date Collected: 10/15/2012 8:21:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0424-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18232910.0	4.992	mg/L	0.0435				0.87%
Y RADIAL	336029.5	4.982	mg/L	0.0138				0.28%
As 188.979†	5.1	0.0014	mg/L	0.00237	0.0014	mg/L	0.00237	171.78%
Tl 190.801†	-0.4	-0.0001	mg/L	0.00159	-0.0001	mg/L	0.00159	>999.9%
Se 196.026†	-7.2	-0.0030	mg/L	0.00431	-0.0030	mg/L	0.00431	142.28%
Zn 206.200†	1652.6	0.0151	mg/L	0.00011	0.0151	mg/L	0.00011	0.76%
Sb 206.836†	5.6	0.0012	mg/L	0.00199	0.0012	mg/L	0.00199	163.97%
Pb 220.353†	2.7	0.0003	mg/L	0.00123	0.0003	mg/L	0.00123	442.98%
Cd 226.502†	50.7	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	87.45%
Co 228.616†	32.0	0.0008	mg/L	0.00028	0.0008	mg/L	0.00028	36.19%
Ni 232.003†	-2.3	0.0000	mg/L	0.00077	0.0000	mg/L	0.00077	>999.9%
Ba 233.527†	2849.0	0.0169	mg/L	0.00010	0.0169	mg/L	0.00010	0.60%
Mn 257.610†	126174.8	0.1345	mg/L	0.00103	0.1345	mg/L	0.00103	0.77%
Cr 267.716†	13.3	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	183.82%
Fe 273.955†	13788.8	0.5453	mg/L	0.00385	0.5453	mg/L	0.00385	0.71%
Mg 279.077†	73180.1	3.219	mg/L	0.0246	3.219	mg/L	0.0246	0.77%
V 292.402†	284.2	0.0007	mg/L	0.00014	0.0007	mg/L	0.00014	20.63%
Al 308.215†	-948.3	-0.0244	mg/L	0.00203	-0.0244	mg/L	0.00203	8.34%
Be 313.107†	174.9	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	255.01%
Cu 324.752†	240.8	0.0004	mg/L	0.00018	0.0004	mg/L	0.00018	42.59%
Ag 338.289†	43.1	0.0001	mg/L	0.00041	0.0001	mg/L	0.00041	429.71%
Na 330.237†	27404.5	18.62	mg/L	0.124	18.62	mg/L	0.124	0.67%
Ca 227.546†	4143.9	7.553	mg/L	0.0736	7.553	mg/L	0.0736	0.97%
Al RADIAL†	-96.6	-0.0284	mg/L	0.00465	-0.0284	mg/L	0.00465	16.39%
Fe RADIAL†	79.8	0.5462	mg/L	0.01264	0.5462	mg/L	0.01264	2.31%
Ca RADIAL†	28077.8	8.034	mg/L	0.0458	8.034	mg/L	0.0458	0.57%
K RADIAL†	2888.7	1.411	mg/L	0.0173	1.411	mg/L	0.0173	1.22%
Mg RADIAL†	458.9	3.093	mg/L	0.0144	3.093	mg/L	0.0144	0.47%
Na RADIAL†	509112.0	19.55	mg/L	0.102	19.55	mg/L	0.102	0.52%

Sequence No.: 35
Sample ID: CCV-3
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 8:27:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17675427.1	4.840	mg/L	0.0262				0.54%
Y RADIAL	329075.2	4.879	mg/L	0.0288				0.59%
As 188.979†	935.8	0.2383	mg/L	0.00371	0.2383	mg/L	0.00371	1.56%
Tl 190.801†	986.6	0.2410	mg/L	0.00195	0.2410	mg/L	0.00195	0.81%
Se 196.026†	509.2	0.2460	mg/L	0.00585	0.2460	mg/L	0.00585	2.38%
Zn 206.200†	274514.5	2.506	mg/L	0.0144	2.506	mg/L	0.0144	0.58%
Sb 206.836†	1121.3	0.2422	mg/L	0.00192	0.2422	mg/L	0.00192	0.79%
Pb 220.353†	2563.3	0.2510	mg/L	0.00026	0.2510	mg/L	0.00026	0.11%
Cd 226.502†	26089.9	0.1216	mg/L	0.00045	0.1216	mg/L	0.00045	0.37%
Co 228.616†	102154.9	2.505	mg/L	0.0096	2.505	mg/L	0.0096	0.38%
Ni 232.003†	54462.8	2.448	mg/L	0.0186	2.448	mg/L	0.0186	0.76%
Ba 233.527†	1710604.1	10.12	mg/L	0.088	10.12	mg/L	0.088	0.87%
Mn 257.610†	2335277.2	2.490	mg/L	0.0224	2.490	mg/L	0.0224	0.90%
Cr 267.716†	154243.1	0.9850	mg/L	0.00440	0.9850	mg/L	0.00440	0.45%
Fe 273.955†	125852.4	4.977	mg/L	0.0265	4.977	mg/L	0.0265	0.53%
Mg 279.077†	557735.6	24.53	mg/L	0.198	24.53	mg/L	0.198	0.81%
V 292.402†	937090.4	2.440	mg/L	0.0213	2.440	mg/L	0.0213	0.87%
Al 308.215†	387610.7	9.908	mg/L	0.0249	9.908	mg/L	0.0249	0.25%
Be 313.107†	1264329.3	0.2459	mg/L	0.00205	0.2459	mg/L	0.00205	0.83%
Cu 324.752†	491279.6	1.197	mg/L	0.0042	1.197	mg/L	0.0042	0.35%
Ag 338.289†	299887.0	1.220	mg/L	0.0056	1.220	mg/L	0.0056	0.46%
Na 330.237†	33318.8	22.69	mg/L	0.099	22.69	mg/L	0.099	0.44%

Ca 227.546†	13200.9	24.08 mg/L	0.204	24.08 mg/L	0.204	0.85%
Al RADIAL†	32956.6	9.688 mg/L	0.0455	9.688 mg/L	0.0455	0.47%
Fe RADIAL†	720.1	4.927 mg/L	0.0341	4.927 mg/L	0.0341	0.69%
Ca RADIAL†	86394.9	24.72 mg/L	0.074	24.72 mg/L	0.074	0.30%
K RADIAL†	9753.2	4.763 mg/L	0.0391	4.763 mg/L	0.0391	0.82%
Mg RADIAL†	3645.6	24.57 mg/L	0.093	24.57 mg/L	0.093	0.38%
Na RADIAL†	639256.7	24.55 mg/L	0.165	24.55 mg/L	0.165	0.67%

Sequence No.: 36
Sample ID: CCB-3
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/15/2012 8:35:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18399137.8	5.038	mg/L	0.0374				0.74%
Y RADIAL	331742.0	4.919	mg/L	0.0339				0.69%
As 188.979†	6.1	0.0015	mg/L	0.00172	0.0015	mg/L	0.00172	111.69%
Tl 190.801†	3.6	0.0009	mg/L	0.00147	0.0009	mg/L	0.00147	167.50%
Se 196.026†	-4.6	-0.0022	mg/L	0.00349	-0.0022	mg/L	0.00349	160.10%
Zn 206.200†	20.2	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	46.34%
Sb 206.836†	-2.7	-0.0006	mg/L	0.00182	-0.0006	mg/L	0.00182	312.07%
Pb 220.353†	6.2	0.0006	mg/L	0.00080	0.0006	mg/L	0.00080	132.46%
Cd 226.502†	7.1	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	265.75%
Co 228.616†	25.3	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	17.28%
Ni 232.003†	10.4	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.83%
Ba 233.527†	300.1	0.0018	mg/L	0.00013	0.0018	mg/L	0.00013	7.35%
Mn 257.610†	418.6	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	1.08%
Cr 267.716†	9.5	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	116.27%
Fe 273.955†	26.9	0.0011	mg/L	0.00003	0.0011	mg/L	0.00003	2.58%
Mg 279.077†	88.0	0.0039	mg/L	0.00019	0.0039	mg/L	0.00019	4.78%
V 292.402†	81.6	0.0002	mg/L	0.00019	0.0002	mg/L	0.00019	89.42%
Al 308.215†	-48.4	-0.0012	mg/L	0.00367	-0.0012	mg/L	0.00367	296.23%
Be 313.107†	841.4	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	39.79%
Cu 324.752†	17.3	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024	580.12%
Ag 338.289†	226.5	0.0009	mg/L	0.00014	0.0009	mg/L	0.00014	14.80%
Na 330.237†	-12.7	-0.0085	mg/L	0.05512	-0.0085	mg/L	0.05512	645.50%
Ca 227.546†	19.8	0.0361	mg/L	0.01182	0.0361	mg/L	0.01182	32.70%
Al RADIAL†	13.3	0.0039	mg/L	0.00112	0.0039	mg/L	0.00112	28.64%
Fe RADIAL†	-0.3	-0.0024	mg/L	0.00949	-0.0024	mg/L	0.00949	399.33%
Ca RADIAL†	75.4	0.0216	mg/L	0.00162	0.0216	mg/L	0.00162	7.52%
K RADIAL†	-2.0	-0.0010	mg/L	0.01306	-0.0010	mg/L	0.01306	>999.9%
Mg RADIAL†	4.5	0.0302	mg/L	0.02083	0.0302	mg/L	0.02083	69.04%
Na RADIAL†	-922.5	-0.0354	mg/L	0.02599	-0.0354	mg/L	0.02599	73.34%

Sequence No.: 37
Sample ID: 12J0425-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 10/15/2012 8:41:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0425-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18649291.8	5.106	mg/L	0.0072				0.14%
Y RADIAL	343985.9	5.100	mg/L	0.0578				1.13%
As 188.979†	6.5	0.0017	mg/L	0.00139	0.0017	mg/L	0.00139	83.94%
Tl 190.801†	1.3	0.0003	mg/L	0.00090	0.0003	mg/L	0.00090	283.39%
Se 196.026†	-0.4	-0.0002	mg/L	0.00194	-0.0002	mg/L	0.00194	999.23%
Zn 206.200†	5550.5	0.0507	mg/L	0.00006	0.0507	mg/L	0.00006	0.12%
Sb 206.836†	-10.3	-0.0022	mg/L	0.00176	-0.0022	mg/L	0.00176	78.77%
Pb 220.353†	-4.4	-0.0004	mg/L	0.00127	-0.0004	mg/L	0.00127	338.27%
Cd 226.502†	40.3	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	30.38%
Co 228.616†	7.6	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	91.14%
Ni 232.003†	-6.1	-0.0003	mg/L	0.00069	-0.0003	mg/L	0.00069	253.45%
Ba 233.527†	216.1	0.0013	mg/L	0.00005	0.0013	mg/L	0.00005	3.61%

Mn 257.610†	1787.7	0.0019 mg/L	0.00001	0.0019 mg/L	0.00001	0.69%
Cr 267.716†	-6.3	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	309.75%
Fe 273.955†	-7.7	-0.0003 mg/L	0.00033	-0.0003 mg/L	0.00033	108.53%
Mg 279.077†	20369.4	0.8958 mg/L	0.00176	0.8958 mg/L	0.00176	0.20%
V 292.402†	82.2	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	31.49%
Al 308.215†	-1412.0	-0.0362 mg/L	0.00098	-0.0362 mg/L	0.00098	2.70%
Be 313.107†	802.7	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	39.66%
Cu 324.752†	-60.8	-0.0003 mg/L	0.00011	-0.0003 mg/L	0.00011	42.28%
Ag 338.289†	74.4	0.0002 mg/L	0.00052	0.0002 mg/L	0.00052	207.93%
Na 330.237†	6272.1	4.267 mg/L	0.0543	4.267 mg/L	0.0543	1.27%
Ca 227.546†	2766.6	5.041 mg/L	0.0347	5.041 mg/L	0.0347	0.69%
Al RADIAL†	-123.3	-0.0363 mg/L	0.00533	-0.0363 mg/L	0.00533	14.71%
Fe RADIAL†	-0.5	-0.0037 mg/L	0.00361	-0.0037 mg/L	0.00361	97.53%
Ca RADIAL†	18555.1	5.309 mg/L	0.0221	5.309 mg/L	0.0221	0.42%
K RADIAL†	1296.1	0.6329 mg/L	0.02139	0.6329 mg/L	0.02139	3.38%
Mg RADIAL†	128.9	0.8686 mg/L	0.00751	0.8686 mg/L	0.00751	0.86%
Na RADIAL†	128878.4	4.950 mg/L	0.0091	4.950 mg/L	0.0091	0.18%

Sequence No.: 38
Sample ID: 12J0426-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 10/15/2012 8:46:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0426-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18104609.2	4.957	mg/L	0.0075				0.15%
Y RADIAL	330338.9	4.898	mg/L	0.0605				1.23%
As 188.979†	7.7	0.0020	mg/L	0.00125	0.0020	mg/L	0.00125	63.44%
Tl 190.801†	2.7	0.0007	mg/L	0.00110	0.0007	mg/L	0.00110	167.54%
Se 196.026†	1.5	0.0007	mg/L	0.00097	0.0007	mg/L	0.00097	134.44%
Zn 206.200†	1607.3	0.0147	mg/L	0.00024	0.0147	mg/L	0.00024	1.61%
Sb 206.836†	-0.5	-0.0001	mg/L	0.00165	-0.0001	mg/L	0.00165	>999.9%
Pb 220.353†	2.7	0.0003	mg/L	0.00096	0.0003	mg/L	0.00096	275.18%
Cd 226.502†	40.7	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	54.07%
Co 228.616†	32.0	0.0008	mg/L	0.00025	0.0008	mg/L	0.00025	31.47%
Ni 232.003†	0.4	0.0000	mg/L	0.00057	0.0000	mg/L	0.00057	>999.9%
Ba 233.527†	3056.6	0.0181	mg/L	0.00008	0.0181	mg/L	0.00008	0.45%
Mn 257.610†	201672.0	0.2150	mg/L	0.00077	0.2150	mg/L	0.00077	0.36%
Cr 267.716†	-0.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	>999.9%
Fe 273.955†	574.0	0.0227	mg/L	0.00057	0.0227	mg/L	0.00057	2.50%
Mg 279.077†	72549.7	3.191	mg/L	0.0135	3.191	mg/L	0.0135	0.42%
V 292.402†	69.5	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	93.79%
Al 308.215†	-1252.2	-0.0322	mg/L	0.00050	-0.0322	mg/L	0.00050	1.56%
Be 313.107†	413.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	62.66%
Cu 324.752†	179.4	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	62.05%
Ag 338.289†	76.5	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	41.69%
Na 330.237†	27153.5	18.45	mg/L	0.062	18.45	mg/L	0.062	0.33%
Ca 227.546†	4141.9	7.547	mg/L	0.0340	7.547	mg/L	0.0340	0.45%
Al RADIAL†	-118.5	-0.0348	mg/L	0.00101	-0.0348	mg/L	0.00101	2.91%
Fe RADIAL†	2.6	0.0175	mg/L	0.00290	0.0175	mg/L	0.00290	16.58%
Ca RADIAL†	28638.1	8.195	mg/L	0.1141	8.195	mg/L	0.1141	1.39%
K RADIAL†	2975.6	1.453	mg/L	0.0112	1.453	mg/L	0.0112	0.77%
Mg RADIAL†	471.0	3.174	mg/L	0.0335	3.174	mg/L	0.0335	1.06%
Na RADIAL†	510892.2	19.62	mg/L	0.021	19.62	mg/L	0.021	0.11%

Sequence No.: 39
Sample ID: 12J0426-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 10/15/2012 8:51:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0426-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18304904.3	5.012	mg/L	0.0249				0.50%
Y RADIAL	335959.3	4.981	mg/L	0.0305				0.61%

As 188.979†	8.4	0.0023 mg/L	0.00313	0.0023 mg/L	0.00313	134.76%
Tl 190.801†	7.8	0.0020 mg/L	0.00075	0.0020 mg/L	0.00075	37.35%
Se 196.026†	-2.6	-0.0003 mg/L	0.00397	-0.0003 mg/L	0.00397	>999.9%
Zn 206.200†	2323.6	0.0212 mg/L	0.00011	0.0212 mg/L	0.00011	0.50%
Sb 206.836†	-9.6	-0.0021 mg/L	0.00051	-0.0021 mg/L	0.00051	24.63%
Pb 220.353†	-16.4	-0.0017 mg/L	0.00032	-0.0017 mg/L	0.00032	18.80%
Cd 226.502†	63.2	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	73.84%
Co 228.616†	35.7	0.0009 mg/L	0.00006	0.0009 mg/L	0.00006	6.92%
Ni 232.003†	22.1	0.0012 mg/L	0.00015	0.0012 mg/L	0.00015	12.49%
Ba 233.527†	3173.2	0.0188 mg/L	0.00021	0.0188 mg/L	0.00021	1.11%
Mn 257.610†	205566.4	0.2192 mg/L	0.00055	0.2192 mg/L	0.00055	0.25%
Cr 267.716†	23.3	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	74.39%
Fe 273.955†	31988.9	1.265 mg/L	0.0033	1.265 mg/L	0.0033	0.26%
Mg 279.077†	71331.4	3.137 mg/L	0.0152	3.137 mg/L	0.0152	0.48%
V 292.402†	685.4	0.0017 mg/L	0.00014	0.0017 mg/L	0.00014	8.33%
Al 308.215†	-1086.5	-0.0278 mg/L	0.00160	-0.0278 mg/L	0.00160	5.77%
Be 313.107†	779.0	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	21.33%
Cu 324.752†	719.8	0.0016 mg/L	0.00022	0.0016 mg/L	0.00022	13.79%
Ag 338.289†	192.5	0.0007 mg/L	0.00024	0.0007 mg/L	0.00024	33.94%
Na 330.237†	26803.0	18.22 mg/L	0.030	18.22 mg/L	0.030	0.17%
Ca 227.546†	4078.9	7.438 mg/L	0.0208	7.438 mg/L	0.0208	0.28%
Al RADIAL†	-74.7	-0.0220 mg/L	0.00529	-0.0220 mg/L	0.00529	24.11%
Fe RADIAL†	190.4	1.303 mg/L	0.0114	1.303 mg/L	0.0114	0.87%
Ca RADIAL†	28211.5	8.073 mg/L	0.1044	8.073 mg/L	0.1044	1.29%
K RADIAL†	2882.4	1.407 mg/L	0.0249	1.407 mg/L	0.0249	1.77%
Mg RADIAL†	464.7	3.131 mg/L	0.0178	3.131 mg/L	0.0178	0.57%
Na RADIAL†	509778.9	19.58 mg/L	0.040	19.58 mg/L	0.040	0.21%

Sequence No.: 40
Sample ID: 12J0431-09
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 10/15/2012 8:56:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0431-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17477962.6	4.786	mg/L	0.0296				0.62%
Y RADIAL	333696.3	4.948	mg/L	0.0208				0.42%
As 188.979†	9.6	0.0024	mg/L	0.00189	0.0024	mg/L	0.00189	77.35%
Tl 190.801†	4.1	0.0010	mg/L	0.00167	0.0010	mg/L	0.00167	167.03%
Se 196.026†	1.9	0.0009	mg/L	0.00229	0.0009	mg/L	0.00229	251.44%
Zn 206.200†	637.6	0.0058	mg/L	0.00011	0.0058	mg/L	0.00011	1.81%
Sb 206.836†	14.8	0.0032	mg/L	0.00108	0.0032	mg/L	0.00108	33.65%
Pb 220.353†	10.3	0.0010	mg/L	0.00099	0.0010	mg/L	0.00099	96.02%
Cd 226.502†	29.9	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	32.68%
Co 228.616†	13.6	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	31.13%
Ni 232.003†	197.7	0.0089	mg/L	0.00021	0.0089	mg/L	0.00021	2.35%
Ba 233.527†	557.6	0.0033	mg/L	0.00007	0.0033	mg/L	0.00007	2.11%
Mn 257.610†	1547.4	0.0016	mg/L	0.00003	0.0016	mg/L	0.00003	1.67%
Cr 267.716†	11432.7	0.0730	mg/L	0.00082	0.0730	mg/L	0.00082	1.13%
Fe 273.955†	505.1	0.0200	mg/L	0.00101	0.0200	mg/L	0.00101	5.08%
Mg 279.077†	19905.4	0.8755	mg/L	0.00396	0.8755	mg/L	0.00396	0.45%
V 292.402†	-14.6	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	371.55%
Al 308.215†	3539.1	0.0904	mg/L	0.00398	0.0904	mg/L	0.00398	4.40%
Be 313.107†	-158.8	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	360.78%
Cu 324.752†	86473.4	0.2108	mg/L	0.00048	0.2108	mg/L	0.00048	0.23%
Ag 338.289†	515.2	0.0021	mg/L	0.00015	0.0021	mg/L	0.00015	7.24%
Na 330.237†	356780.5	242.2	mg/L	1.17	242.2	mg/L	1.17	0.48%
Ca 227.546†	833.9	1.520	mg/L	0.0174	1.520	mg/L	0.0174	1.14%
Al RADIAL†	263.3	0.0774	mg/L	0.00433	0.0774	mg/L	0.00433	5.59%
Fe RADIAL†	4.0	0.0274	mg/L	0.01708	0.0274	mg/L	0.01708	62.37%
Ca RADIAL†	5474.2	1.566	mg/L	0.0038	1.566	mg/L	0.0038	0.24%
K RADIAL†	21537.9	10.52	mg/L	0.030	10.52	mg/L	0.030	0.28%
Mg RADIAL†	130.6	0.8804	mg/L	0.03882	0.8804	mg/L	0.03882	4.41%
Na RADIAL†	4772064.5	183.3	mg/L	1.34	183.3	mg/L	1.34	0.73%

Sequence No.: 41
Sample ID: BJ20717-BLK1

Autosampler Location: 33
Date Collected: 10/15/2012 9:02:11 PM

Analyst: MW
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20717-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18280109.5	5.005	mg/L	0.0225				0.45%
Y RADIAL	338389.6	5.017	mg/L	0.0138				0.27%
As 188.979†	6.8	0.0017	mg/L	0.00178	0.0017	mg/L	0.00178	103.58%
Tl 190.801†	-2.0	-0.0005	mg/L	0.00077	-0.0005	mg/L	0.00077	159.18%
Se 196.026†	-2.7	-0.0013	mg/L	0.00352	-0.0013	mg/L	0.00352	277.83%
Zn 206.200†	-38.8	-0.0004	mg/L	0.00006	-0.0004	mg/L	0.00006	16.07%
Sb 206.836†	-11.8	-0.0025	mg/L	0.00027	-0.0025	mg/L	0.00027	10.79%
Pb 220.353†	9.4	0.0009	mg/L	0.00061	0.0009	mg/L	0.00061	67.27%
Cd 226.502†	1.9	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	525.76%
Co 228.616†	-2.2	-0.0001	mg/L	0.00029	-0.0001	mg/L	0.00029	520.24%
Ni 232.003†	-1.0	0.0000	mg/L	0.00056	0.0000	mg/L	0.00056	>999.9%
Ba 233.527†	11.3	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	50.12%
Mn 257.610†	48.1	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.28%
Cr 267.716†	-9.4	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	119.68%
Fe 273.955†	-12.2	-0.0005	mg/L	0.00047	-0.0005	mg/L	0.00047	97.22%
Mg 279.077†	12.7	0.0006	mg/L	0.00073	0.0006	mg/L	0.00073	130.22%
V 292.402†	-13.9	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	396.05%
Al 308.215†	17.3	0.0004	mg/L	0.00244	0.0004	mg/L	0.00244	552.72%
Be 313.107†	142.6	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	93.33%
Cu 324.752†	-44.0	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	31.32%
Ag 338.289†	72.0	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	115.78%
Na 330.237†	7.6	0.0051	mg/L	0.01895	0.0051	mg/L	0.01895	370.10%
Ca 227.546†	-6.7	-0.0122	mg/L	0.01172	-0.0122	mg/L	0.01172	95.86%
Al RADIAL†	9.5	0.0028	mg/L	0.00173	0.0028	mg/L	0.00173	61.73%
Fe RADIAL†	-0.9	-0.0064	mg/L	0.00815	-0.0064	mg/L	0.00815	127.52%
Ca RADIAL†	26.5	0.0076	mg/L	0.00293	0.0076	mg/L	0.00293	38.66%
K RADIAL†	-1.3	-0.0006	mg/L	0.01197	-0.0006	mg/L	0.01197	>999.9%
Mg RADIAL†	2.7	0.0183	mg/L	0.01894	0.0183	mg/L	0.01894	103.67%
Na RADIAL†	114.2	0.0044	mg/L	0.01668	0.0044	mg/L	0.01668	380.20%

Sequence No.: 42
Sample ID: BJ20717-SRM1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 10/15/2012 9:07:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20717-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18467267.2	5.057	mg/L	0.0075				0.15%
Y RADIAL	343262.4	5.090	mg/L	0.0392				0.77%
As 188.979†	491.3	0.1247	mg/L	0.00139	0.1247	mg/L	0.00139	1.12%
Tl 190.801†	634.5	0.1547	mg/L	0.00238	0.1547	mg/L	0.00238	1.54%
Se 196.026†	1034.1	0.4928	mg/L	0.00141	0.4928	mg/L	0.00141	0.29%
Zn 206.200†	74231.0	0.6777	mg/L	0.00465	0.6777	mg/L	0.00465	0.69%
Sb 206.836†	630.7	0.1363	mg/L	0.00068	0.1363	mg/L	0.00068	0.50%
Pb 220.353†	19526.1	1.908	mg/L	0.0093	1.908	mg/L	0.0093	0.49%
Cd 226.502†	50982.3	0.2395	mg/L	0.00143	0.2395	mg/L	0.00143	0.60%
Co 228.616†	26765.6	0.6564	mg/L	0.00531	0.6564	mg/L	0.00531	0.81%
Ni 232.003†	12190.8	0.5478	mg/L	0.00147	0.5478	mg/L	0.00147	0.27%
Ba 233.527†	193509.7	1.145	mg/L	0.0076	1.145	mg/L	0.0076	0.66%
Mn 257.610†	798923.0	0.8518	mg/L	0.00187	0.8518	mg/L	0.00187	0.22%
Cr 267.716†	57362.8	0.3663	mg/L	0.00172	0.3663	mg/L	0.00172	0.47%
Fe 273.955†	6538.6	0.2586	mg/L	0.00069	0.2586	mg/L	0.00069	0.27%
Mg 279.077†	-230.2	-0.0101	mg/L	0.00175	-0.0101	mg/L	0.00175	17.34%
V 292.402†	183379.3	0.4776	mg/L	0.00252	0.4776	mg/L	0.00252	0.53%
Al 308.215†	48738.8	1.246	mg/L	0.0085	1.246	mg/L	0.0085	0.68%
Be 313.107†	1773502.6	0.3449	mg/L	0.00278	0.3449	mg/L	0.00278	0.81%
Cu 324.752†	172897.7	0.4216	mg/L	0.00272	0.4216	mg/L	0.00272	0.64%
Ag 338.289†	52929.8	0.2154	mg/L	0.00141	0.2154	mg/L	0.00141	0.66%
Na 330.237†	-728.6	-0.4932	mg/L	0.03795	-0.4932	mg/L	0.03795	7.69%
Ca 227.546†	52.9	0.0982	mg/L	0.02398	0.0982	mg/L	0.02398	24.40%

Al RADIAL†	4372.5	1.285	mg/L	0.0046	1.285	mg/L	0.0046	0.36%
Fe RADIAL†	35.6	0.2433	mg/L	0.01672	0.2433	mg/L	0.01672	6.87%
Ca RADIAL†	-97.8	-0.0280	mg/L	0.00554	-0.0280	mg/L	0.00554	19.80%
K RADIAL†	34.0	0.0166	mg/L	0.01577	0.0166	mg/L	0.01577	95.11%
Mg RADIAL†	-0.5	-0.0036	mg/L	0.00873	-0.0036	mg/L	0.00873	244.73%
Na RADIAL†	1711.5	0.0657	mg/L	0.02651	0.0657	mg/L	0.02651	40.32%

Sequence No.: 43
Sample ID: BJ20717-SRM2
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 10/15/2012 9:12:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20717-SRM2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17267848.9	4.728	mg/L	0.0385				0.81%
Y RADIAL	319871.4	4.743	mg/L	0.0178				0.38%
As 188.979†	-0.3	-0.0001	mg/L	0.00225	-0.0001	mg/L	0.00225	>999.9%
Tl 190.801†	-6.5	-0.0016	mg/L	0.00158	-0.0016	mg/L	0.00158	100.42%
Se 196.026†	0.6	0.0003	mg/L	0.00193	0.0003	mg/L	0.00193	705.00%
Zn 206.200†	88.7	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	9.63%
Sb 206.836†	-2.1	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	16.68%
Pb 220.353†	-6.3	-0.0003	mg/L	0.00149	-0.0003	mg/L	0.00149	438.69%
Cd 226.502†	12.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	29.75%
Co 228.616†	1.2	0.0000	mg/L	0.00049	0.0000	mg/L	0.00049	>999.9%
Ni 232.003†	-26.5	-0.0012	mg/L	0.00021	-0.0012	mg/L	0.00021	17.73%
Ba 233.527†	102.1	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.36%
Mn 257.610†	431.3	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	12.28%
Cr 267.716†	16.1	0.0001	mg/L	0.00042	0.0001	mg/L	0.00042	411.37%
Fe 273.955†	42.6	0.0017	mg/L	0.00029	0.0017	mg/L	0.00029	17.31%
Mg 279.077†	306233.9	13.47	mg/L	0.136	13.47	mg/L	0.136	1.01%
V 292.402†	50.7	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	89.12%
Al 308.215†	1571.2	0.0396	mg/L	0.00183	0.0396	mg/L	0.00183	4.62%
Be 313.107†	422.6	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	57.77%
Cu 324.752†	538.5	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	13.25%
Ag 338.289†	199.7	0.0006	mg/L	0.00045	0.0006	mg/L	0.00045	80.43%
Na 330.237†	81428.2	55.33	mg/L	0.492	55.33	mg/L	0.492	0.89%
Ca 227.546†	12911.9	23.53	mg/L	0.256	23.53	mg/L	0.256	1.09%
Al RADIAL†	130.1	0.0382	mg/L	0.00186	0.0382	mg/L	0.00186	4.87%
Fe RADIAL†	0.0	0.0002	mg/L	0.01509	0.0002	mg/L	0.01509	>999.9%
Ca RADIAL†	89543.0	25.62	mg/L	0.340	25.62	mg/L	0.340	1.33%
K RADIAL†	39746.5	19.41	mg/L	0.222	19.41	mg/L	0.222	1.15%
Mg RADIAL†	1973.6	13.30	mg/L	0.065	13.30	mg/L	0.065	0.49%
Na RADIAL†	1362334.1	52.33	mg/L	0.236	52.33	mg/L	0.236	0.45%

Sequence No.: 44
Sample ID: 12J0448-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 10/15/2012 9:18:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0448-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16844574.9	4.612	mg/L	0.0115				0.25%
Y RADIAL	326797.4	4.845	mg/L	0.0272				0.56%
As 188.979†	41.5	0.0135	mg/L	0.00445	0.0135	mg/L	0.00445	33.00%
Tl 190.801†	-39.0	-0.0079	mg/L	0.00057	-0.0079	mg/L	0.00057	7.26%
Se 196.026†	6.3	0.0171	mg/L	0.00180	0.0171	mg/L	0.00180	10.50%
Zn 206.200†	2211.2	0.0192	mg/L	0.00015	0.0192	mg/L	0.00015	0.80%
Sb 206.836†	-27.1	-0.0059	mg/L	0.00100	-0.0059	mg/L	0.00100	17.01%
Pb 220.353†	-28.8	0.0004	mg/L	0.00116	0.0004	mg/L	0.00116	277.56%
Cd 226.502†	499.4	-0.0014	mg/L	0.00008	-0.0014	mg/L	0.00008	5.76%
Co 228.616†	57.8	0.0014	mg/L	0.00017	0.0014	mg/L	0.00017	12.22%
Ni 232.003†	273.7	0.0156	mg/L	0.00017	0.0156	mg/L	0.00017	1.11%
Ba 233.527†	3928.8	0.0233	mg/L	0.00008	0.0233	mg/L	0.00008	0.36%
Mn 257.610†	1732942.3	1.847	mg/L	0.0080	1.847	mg/L	0.0080	0.43%

Cr 267.716†	-135.3	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	6.02%
Fe 273.955†	508154.8	20.10	mg/L	0.100	20.10	mg/L	0.100	0.50%
Mg 279.077†	1932556.3	84.99	mg/L	0.503	84.99	mg/L	0.503	0.59%
V 292.402†	4068.7	0.0090	mg/L	0.00017	0.0090	mg/L	0.00017	1.85%
Al 308.215†	431.5	0.0051	mg/L	0.00168	0.0051	mg/L	0.00168	32.84%
Be 313.107†	-1232.2	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	18.62%
Cu 324.752†	32.5	-0.0098	mg/L	0.00014	-0.0098	mg/L	0.00014	1.44%
Ag 338.289†	909.9	-0.0015	mg/L	0.00005	-0.0015	mg/L	0.00005	3.39%
Na 330.237†	96693.7	66.59	mg/L	0.428	66.59	mg/L	0.428	0.64%
Ca 227.546†	273434.8	498.3	mg/L	1.51	498.3	mg/L	1.51	0.30%
Al RADIAL†	9.3	0.0027	mg/L	0.00414	0.0027	mg/L	0.00414	151.85%
Fe RADIAL†	3053.5	20.89	mg/L	0.125	20.89	mg/L	0.125	0.60%
Ca RADIAL†	1782958.6	510.2	mg/L	0.60	510.2	mg/L	0.60	0.12%
K RADIAL†	100952.1	49.30	mg/L	0.263	49.30	mg/L	0.263	0.53%
Mg RADIAL†	12820.7	86.40	mg/L	0.596	86.40	mg/L	0.596	0.69%
Na RADIAL†	1421733.7	54.61	mg/L	0.212	54.61	mg/L	0.212	0.39%

Sequence No.: 45
Sample ID: 12J0448-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 10/15/2012 9:26:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0448-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17029872.0	4.663	mg/L	0.0344				0.74%
Y RADIAL	320092.1	4.746	mg/L	0.0568				1.20%
As 188.979†	-5.6	-0.0014	mg/L	0.00239	-0.0014	mg/L	0.00239	172.13%
Tl 190.801†	10.6	0.0026	mg/L	0.00083	0.0026	mg/L	0.00083	31.93%
Se 196.026†	12.9	0.0063	mg/L	0.00351	0.0063	mg/L	0.00351	56.05%
Zn 206.200†	10416.6	0.0951	mg/L	0.00075	0.0951	mg/L	0.00075	0.79%
Sb 206.836†	-13.4	-0.0029	mg/L	0.00149	-0.0029	mg/L	0.00149	51.46%
Pb 220.353†	-48.6	-0.0015	mg/L	0.00096	-0.0015	mg/L	0.00096	64.28%
Cd 226.502†	111.2	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	16.31%
Co 228.616†	448.6	0.0110	mg/L	0.00037	0.0110	mg/L	0.00037	3.41%
Ni 232.003†	802.4	0.0361	mg/L	0.00063	0.0361	mg/L	0.00063	1.75%
Ba 233.527†	3077.3	0.0182	mg/L	0.00011	0.0182	mg/L	0.00011	0.60%
Mn 257.610†	3392311.0	3.615	mg/L	0.0041	3.615	mg/L	0.0041	0.11%
Cr 267.716†	89.2	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	13.66%
Fe 273.955†	3874.0	0.1532	mg/L	0.00097	0.1532	mg/L	0.00097	0.63%
Mg 279.077†	1861690.2	81.88	mg/L	0.135	81.88	mg/L	0.135	0.16%
V 292.402†	85.4	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	41.27%
Al 308.215†	2867.7	0.0683	mg/L	0.00468	0.0683	mg/L	0.00468	6.86%
Be 313.107†	-777.0	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	37.26%
Cu 324.752†	1787.5	-0.0021	mg/L	0.00023	-0.0021	mg/L	0.00023	10.91%
Ag 338.289†	627.2	-0.0004	mg/L	0.00038	-0.0004	mg/L	0.00038	101.13%
Na 330.237†	96681.7	66.12	mg/L	0.873	66.12	mg/L	0.873	1.32%
Ca 227.546†	152690.0	278.2	mg/L	3.64	278.2	mg/L	3.64	1.31%
Al RADIAL†	187.2	0.0550	mg/L	0.00474	0.0550	mg/L	0.00474	8.61%
Fe RADIAL†	24.2	0.1655	mg/L	0.03239	0.1655	mg/L	0.03239	19.57%
Ca RADIAL†	996853.5	285.2	mg/L	0.86	285.2	mg/L	0.86	0.30%
K RADIAL†	19268.3	9.409	mg/L	0.1721	9.409	mg/L	0.1721	1.83%
Mg RADIAL†	12186.0	82.12	mg/L	1.387	82.12	mg/L	1.387	1.69%
Na RADIAL†	1483422.8	56.98	mg/L	0.267	56.98	mg/L	0.267	0.47%

Sequence No.: 46
Sample ID: 12J0448-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 10/15/2012 9:32:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0448-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17088047.3	4.679	mg/L	0.0292				0.62%
Y RADIAL	323341.5	4.794	mg/L	0.0129				0.27%
As 188.979†	27.9	0.0103	mg/L	0.00321	0.0103	mg/L	0.00321	31.31%

Tl 190.801†	-35.7	-0.0070 mg/L	0.00128	-0.0070 mg/L	0.00128	18.26%
Se 196.026†	12.6	0.0212 mg/L	0.00537	0.0212 mg/L	0.00537	25.38%
Zn 206.200†	11156.7	0.1008 mg/L	0.00068	0.1008 mg/L	0.00068	0.67%
Sb 206.836†	-38.4	-0.0083 mg/L	0.00082	-0.0083 mg/L	0.00082	9.84%
Pb 220.353†	-27.5	-0.0003 mg/L	0.00139	-0.0003 mg/L	0.00139	480.43%
Cd 226.502†	509.6	-0.0017 mg/L	0.00014	-0.0017 mg/L	0.00014	8.22%
Co 228.616†	87.8	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	13.31%
Ni 232.003†	342.9	0.0189 mg/L	0.00071	0.0189 mg/L	0.00071	3.77%
Ba 233.527†	6292.4	0.0372 mg/L	0.00028	0.0372 mg/L	0.00028	0.75%
Mn 257.610†	714812.9	0.7628 mg/L	0.00418	0.7628 mg/L	0.00418	0.55%
Cr 267.716†	-2.0	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	>999.9%
Fe 273.955†	546114.1	21.60 mg/L	0.111	21.60 mg/L	0.111	0.52%
Mg 279.077†	620824.7	27.30 mg/L	0.189	27.30 mg/L	0.189	0.69%
V 292.402†	2134.4	0.0038 mg/L	0.00014	0.0038 mg/L	0.00014	3.77%
Al 308.215†	545.1	0.0101 mg/L	0.00369	0.0101 mg/L	0.00369	36.55%
Be 313.107†	-454.5	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	44.75%
Cu 324.752†	-90.3	-0.0082 mg/L	0.00009	-0.0082 mg/L	0.00009	1.08%
Ag 338.289†	804.0	-0.0014 mg/L	0.00028	-0.0014 mg/L	0.00028	19.72%
Na 330.237†	14092.8	10.42 mg/L	0.039	10.42 mg/L	0.039	0.37%
Ca 227.546†	243597.6	443.9 mg/L	1.89	443.9 mg/L	1.89	0.43%
Al RADIAL†	44.4	0.0131 mg/L	0.00268	0.0131 mg/L	0.00268	20.48%
Fe RADIAL†	3231.2	22.11 mg/L	0.062	22.11 mg/L	0.062	0.28%
Ca RADIAL†	1651294.9	472.5 mg/L	0.90	472.5 mg/L	0.90	0.19%
K RADIAL†	22796.7	11.13 mg/L	0.079	11.13 mg/L	0.079	0.71%
Mg RADIAL†	4095.4	27.60 mg/L	0.097	27.60 mg/L	0.097	0.35%
Na RADIAL†	244832.2	9.404 mg/L	0.0412	9.404 mg/L	0.0412	0.44%

Sequence No.: 47
Sample ID: CCV-4
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 9:37:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17727174.4	4.854	mg/L	0.0179				0.37%
Y RADIAL	330474.5	4.900	mg/L	0.0542				1.11%
As 188.979†	935.1	0.2381	mg/L	0.00301	0.2381	mg/L	0.00301	1.27%
Tl 190.801†	984.7	0.2405	mg/L	0.00165	0.2405	mg/L	0.00165	0.69%
Se 196.026†	515.5	0.2490	mg/L	0.00851	0.2490	mg/L	0.00851	3.42%
Zn 206.200†	275688.5	2.517	mg/L	0.0140	2.517	mg/L	0.0140	0.56%
Sb 206.836†	1144.7	0.2473	mg/L	0.00028	0.2473	mg/L	0.00028	0.11%
Pb 220.353†	2557.9	0.2505	mg/L	0.00313	0.2505	mg/L	0.00313	1.25%
Cd 226.502†	26196.3	0.1221	mg/L	0.00076	0.1221	mg/L	0.00076	0.62%
Co 228.616†	101715.6	2.495	mg/L	0.0017	2.495	mg/L	0.0017	0.07%
Ni 232.003†	54608.2	2.455	mg/L	0.0050	2.455	mg/L	0.0050	0.20%
Ba 233.527†	1711034.8	10.13	mg/L	0.063	10.13	mg/L	0.063	0.63%
Mn 257.610†	2342288.0	2.497	mg/L	0.0111	2.497	mg/L	0.0111	0.44%
Cr 267.716†	154927.7	0.9894	mg/L	0.00644	0.9894	mg/L	0.00644	0.65%
Fe 273.955†	125863.3	4.978	mg/L	0.0097	4.978	mg/L	0.0097	0.20%
Mg 279.077†	559177.5	24.59	mg/L	0.112	24.59	mg/L	0.112	0.46%
V 292.402†	935481.0	2.436	mg/L	0.0111	2.436	mg/L	0.0111	0.46%
Al 308.215†	374208.9	9.565	mg/L	0.0608	9.565	mg/L	0.0608	0.64%
Be 313.107†	1255775.8	0.2442	mg/L	0.00264	0.2442	mg/L	0.00264	1.08%
Cu 324.752†	492513.1	1.200	mg/L	0.0047	1.200	mg/L	0.0047	0.40%
Ag 338.289†	300809.3	1.224	mg/L	0.0091	1.224	mg/L	0.0091	0.75%
Na 330.237†	33219.1	22.62	mg/L	0.099	22.62	mg/L	0.099	0.44%
Ca 227.546†	13289.5	24.24	mg/L	0.074	24.24	mg/L	0.074	0.31%
Al RADIAL†	32973.3	9.693	mg/L	0.0424	9.693	mg/L	0.0424	0.44%
Fe RADIAL†	718.4	4.915	mg/L	0.0413	4.915	mg/L	0.0413	0.84%
Ca RADIAL†	86499.2	24.75	mg/L	0.082	24.75	mg/L	0.082	0.33%
K RADIAL†	9783.2	4.777	mg/L	0.0362	4.777	mg/L	0.0362	0.76%
Mg RADIAL†	3667.9	24.72	mg/L	0.196	24.72	mg/L	0.196	0.79%
Na RADIAL†	638944.8	24.54	mg/L	0.186	24.54	mg/L	0.186	0.76%

Sequence No.: 48
Sample ID: CCB-4
Analyst: MW

Autosampler Location: 4
Date Collected: 10/15/2012 9:46:22 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18231596.0	4.992	mg/L	0.0330				0.66%
Y RADIAL	336758.2	4.993	mg/L	0.0561				1.12%
As 188.979†	7.0	0.0018	mg/L	0.00087	0.0018	mg/L	0.00087	48.80%
Tl 190.801†	-2.8	-0.0007	mg/L	0.00054	-0.0007	mg/L	0.00054	79.72%
Se 196.026†	-3.6	-0.0017	mg/L	0.00273	-0.0017	mg/L	0.00273	160.66%
Zn 206.200†	32.7	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	16.22%
Sb 206.836†	2.7	0.0006	mg/L	0.00123	0.0006	mg/L	0.00123	207.63%
Pb 220.353†	6.4	0.0006	mg/L	0.00104	0.0006	mg/L	0.00104	166.50%
Cd 226.502†	8.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	73.61%
Co 228.616†	32.3	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	26.41%
Ni 232.003†	3.0	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	88.30%
Ba 233.527†	414.2	0.0025	mg/L	0.00023	0.0025	mg/L	0.00023	9.32%
Mn 257.610†	575.2	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.49%
Cr 267.716†	29.5	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	110.10%
Fe 273.955†	39.1	0.0015	mg/L	0.00015	0.0015	mg/L	0.00015	9.39%
Mg 279.077†	131.7	0.0058	mg/L	0.00114	0.0058	mg/L	0.00114	19.74%
V 292.402†	259.2	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	18.45%
Al 308.215†	26.3	0.0007	mg/L	0.00225	0.0007	mg/L	0.00225	334.62%
Be 313.107†	438.9	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	44.00%
Cu 324.752†	54.7	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	144.78%
Ag 338.289†	298.5	0.0012	mg/L	0.00025	0.0012	mg/L	0.00025	20.66%
Na 330.237†	-16.8	-0.0114	mg/L	0.04078	-0.0114	mg/L	0.04078	358.57%
Ca 227.546†	-0.6	-0.0011	mg/L	0.03237	-0.0011	mg/L	0.03237	>999.9%
Al RADIAL†	9.5	0.0028	mg/L	0.00116	0.0028	mg/L	0.00116	41.47%
Fe RADIAL†	-1.8	-0.0125	mg/L	0.01497	-0.0125	mg/L	0.01497	119.58%
Ca RADIAL†	52.4	0.0150	mg/L	0.00270	0.0150	mg/L	0.00270	17.97%
K RADIAL†	12.5	0.0061	mg/L	0.00467	0.0061	mg/L	0.00467	76.57%
Mg RADIAL†	1.8	0.0120	mg/L	0.01072	0.0120	mg/L	0.01072	89.40%
Na RADIAL†	-831.2	-0.0319	mg/L	0.04890	-0.0319	mg/L	0.04890	153.19%

Sequence No.: 49 **Autosampler Location: 39**
Sample ID: 12J0450-01 **Date Collected: 10/15/2012 9:51:35 PM**
Analyst: MW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: 12J0450-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17702527.6	4.847	mg/L	0.0137				0.28%
Y RADIAL	324305.0	4.808	mg/L	0.0137				0.28%
As 188.979†	6.9	0.0018	mg/L	0.00155	0.0018	mg/L	0.00155	87.98%
Tl 190.801†	-2.8	-0.0007	mg/L	0.00228	-0.0007	mg/L	0.00228	338.42%
Se 196.026†	-3.1	-0.0015	mg/L	0.00619	-0.0015	mg/L	0.00619	422.91%
Zn 206.200†	2929.9	0.0267	mg/L	0.00016	0.0267	mg/L	0.00016	0.59%
Sb 206.836†	-2.4	-0.0005	mg/L	0.00138	-0.0005	mg/L	0.00138	268.84%
Pb 220.353†	2.4	0.0010	mg/L	0.00019	0.0010	mg/L	0.00019	19.29%
Cd 226.502†	30.4	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	46.42%
Co 228.616†	103.4	0.0025	mg/L	0.00032	0.0025	mg/L	0.00032	12.67%
Ni 232.003†	93.1	0.0042	mg/L	0.00015	0.0042	mg/L	0.00015	3.68%
Ba 233.527†	2721.2	0.0161	mg/L	0.00008	0.0161	mg/L	0.00008	0.48%
Mn 257.610†	384298.4	0.4093	mg/L	0.00465	0.4093	mg/L	0.00465	1.14%
Cr 267.716†	15.8	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	117.95%
Fe 273.955†	477.3	0.0189	mg/L	0.00103	0.0189	mg/L	0.00103	5.48%
Mg 279.077†	523770.8	23.04	mg/L	0.241	23.04	mg/L	0.241	1.05%
V 292.402†	2160.2	0.0056	mg/L	0.00001	0.0056	mg/L	0.00001	0.18%
Al 308.215†	-522.4	-0.0146	mg/L	0.00444	-0.0146	mg/L	0.00444	30.35%
Be 313.107†	78.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	104.99%
Cu 324.752†	2002.9	0.0033	mg/L	0.00030	0.0033	mg/L	0.00030	9.03%
Ag 338.289†	197.5	0.0001	mg/L	0.00020	0.0001	mg/L	0.00020	160.73%
Na 330.237†	24358.7	16.65	mg/L	0.282	16.65	mg/L	0.282	1.69%
Ca 227.546†	35448.6	64.59	mg/L	1.009	64.59	mg/L	1.009	1.56%
Al RADIAL†	-63.7	-0.0187	mg/L	0.00225	-0.0187	mg/L	0.00225	12.02%

Fe RADIAL†	2.5	0.0174 mg/L	0.00901	0.0174 mg/L	0.00901	51.81%
Ca RADIAL†	241223.9	69.02 mg/L	0.151	69.02 mg/L	0.151	0.22%
K RADIAL†	1535.7	0.7499 mg/L	0.02876	0.7499 mg/L	0.02876	3.84%
Mg RADIAL†	3458.1	23.31 mg/L	0.095	23.31 mg/L	0.095	0.41%
Na RADIAL†	445103.6	17.10 mg/L	0.012	17.10 mg/L	0.012	0.07%

Sequence No.: 50
Sample ID: 12J0460-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 10/15/2012 9:56:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0460-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17819952.6	4.879	mg/L	0.0198				0.41%
Y RADIAL	326353.4	4.839	mg/L	0.0423				0.87%
As 188.979†	1.0	0.0003	mg/L	0.00256	0.0003	mg/L	0.00256	>999.9%
Tl 190.801†	-0.9	-0.0002	mg/L	0.00166	-0.0002	mg/L	0.00166	739.69%
Se 196.026†	-1.3	-0.0006	mg/L	0.00313	-0.0006	mg/L	0.00313	511.54%
Zn 206.200†	1057.0	0.0096	mg/L	0.00007	0.0096	mg/L	0.00007	0.71%
Sb 206.836†	-8.3	-0.0018	mg/L	0.00138	-0.0018	mg/L	0.00138	77.05%
Pb 220.353†	-3.9	-0.0003	mg/L	0.00117	-0.0003	mg/L	0.00117	443.08%
Cd 226.502†	32.1	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	90.57%
Co 228.616†	16.7	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	17.67%
Ni 232.003†	-4.1	-0.0002	mg/L	0.00047	-0.0002	mg/L	0.00047	265.62%
Ba 233.527†	19237.8	0.1139	mg/L	0.00160	0.1139	mg/L	0.00160	1.40%
Mn 257.610†	7033.2	0.0075	mg/L	0.00012	0.0075	mg/L	0.00012	1.67%
Cr 267.716†	39.3	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	68.29%
Fe 273.955†	962.7	0.0381	mg/L	0.00120	0.0381	mg/L	0.00120	3.14%
Mg 279.077†	41123.2	1.808	mg/L	0.0228	1.808	mg/L	0.0228	1.26%
V 292.402†	199.0	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	23.74%
Al 308.215†	720.1	0.0183	mg/L	0.00342	0.0183	mg/L	0.00342	18.73%
Be 313.107†	-526.8	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	19.32%
Cu 324.752†	209.9	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	79.86%
Ag 338.289†	119.9	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	57.16%
Na 330.237†	132898.9	90.25	mg/L	0.854	90.25	mg/L	0.854	0.95%
Ca 227.546†	5427.4	9.889	mg/L	0.0810	9.889	mg/L	0.0810	0.82%
Al RADIAL†	22.7	0.0067	mg/L	0.00124	0.0067	mg/L	0.00124	18.59%
Fe RADIAL†	4.9	0.0337	mg/L	0.02514	0.0337	mg/L	0.02514	74.58%
Ca RADIAL†	38222.7	10.94	mg/L	0.067	10.94	mg/L	0.067	0.61%
K RADIAL†	2241.7	1.095	mg/L	0.0187	1.095	mg/L	0.0187	1.71%
Mg RADIAL†	268.8	1.812	mg/L	0.0317	1.812	mg/L	0.0317	1.75%
Na RADIAL†	2143742.2	82.34	mg/L	0.517	82.34	mg/L	0.517	0.63%

Sequence No.: 51
Sample ID: 12J0460-05
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 10/15/2012 10:02:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0460-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18926523.0	5.182	mg/L	0.0049				0.09%
Y RADIAL	343716.2	5.096	mg/L	0.0643				1.26%
As 188.979†	5.0	0.0013	mg/L	0.00106	0.0013	mg/L	0.00106	83.06%
Tl 190.801†	-5.1	-0.0012	mg/L	0.00306	-0.0012	mg/L	0.00306	247.78%
Se 196.026†	-1.9	-0.0009	mg/L	0.00302	-0.0009	mg/L	0.00302	350.39%
Zn 206.200†	2245.8	0.0205	mg/L	0.00011	0.0205	mg/L	0.00011	0.53%
Sb 206.836†	-3.6	-0.0008	mg/L	0.00033	-0.0008	mg/L	0.00033	42.11%
Pb 220.353†	13.0	0.0013	mg/L	0.00051	0.0013	mg/L	0.00051	40.31%
Cd 226.502†	56.3	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	18.11%
Co 228.616†	16.4	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	53.85%
Ni 232.003†	26.4	0.0012	mg/L	0.00060	0.0012	mg/L	0.00060	49.82%
Ba 233.527†	240.7	0.0014	mg/L	0.00004	0.0014	mg/L	0.00004	3.04%
Mn 257.610†	4421.6	0.0047	mg/L	0.00002	0.0047	mg/L	0.00002	0.48%
Cr 267.716†	70.0	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	23.26%

Fe 273.955†	1490.2	0.0589	mg/L	0.00028	0.0589	mg/L	0.00028	0.47%
Mg 279.077†	2962.3	0.1303	mg/L	0.00161	0.1303	mg/L	0.00161	1.24%
V 292.402†	370.5	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	6.70%
Al 308.215†	-416.3	-0.0106	mg/L	0.00237	-0.0106	mg/L	0.00237	22.26%
Be 313.107†	449.3	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	29.65%
Cu 324.752†	690.5	0.0017	mg/L	0.00020	0.0017	mg/L	0.00020	12.19%
Ag 338.289†	81.2	0.0003	mg/L	0.00028	0.0003	mg/L	0.00028	85.35%
Na 330.237†	622.7	0.4239	mg/L	0.02777	0.4239	mg/L	0.02777	6.55%
Ca 227.546†	247.6	0.4514	mg/L	0.03324	0.4514	mg/L	0.03324	7.37%
Al RADIAL†	-13.3	-0.0039	mg/L	0.00260	-0.0039	mg/L	0.00260	66.41%
Fe RADIAL†	9.2	0.0627	mg/L	0.01028	0.0627	mg/L	0.01028	16.38%
Ca RADIAL†	1731.3	0.4954	mg/L	0.00736	0.4954	mg/L	0.00736	1.48%
K RADIAL†	378.1	0.1846	mg/L	0.01778	0.1846	mg/L	0.01778	9.63%
Mg RADIAL†	19.2	0.1291	mg/L	0.01503	0.1291	mg/L	0.01503	11.64%
Na RADIAL†	15857.1	0.6091	mg/L	0.06075	0.6091	mg/L	0.06075	9.97%

Sequence No.: 52
Sample ID: 12J0466-26
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 10/15/2012 10:07:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0466-26

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18525373.7	5.073	mg/L	0.0519				1.02%
Y RADIAL	341447.9	5.063	mg/L	0.0663				1.31%
As 188.979†	4.6	0.0012	mg/L	0.00094	0.0012	mg/L	0.00094	80.92%
Tl 190.801†	-3.3	-0.0008	mg/L	0.00285	-0.0008	mg/L	0.00285	359.45%
Se 196.026†	-0.3	-0.0002	mg/L	0.00108	-0.0002	mg/L	0.00108	702.84%
Zn 206.200†	1654.1	0.0151	mg/L	0.00035	0.0151	mg/L	0.00035	2.31%
Sb 206.836†	-8.2	-0.0018	mg/L	0.00076	-0.0018	mg/L	0.00076	43.08%
Pb 220.353†	-7.5	-0.0007	mg/L	0.00075	-0.0007	mg/L	0.00075	101.52%
Cd 226.502†	30.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.36%
Co 228.616†	13.4	0.0003	mg/L	0.00020	0.0003	mg/L	0.00020	61.06%
Ni 232.003†	4.5	0.0002	mg/L	0.00109	0.0002	mg/L	0.00109	530.67%
Ba 233.527†	93.2	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	13.07%
Mn 257.610†	195.0	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.56%
Cr 267.716†	25.7	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	34.99%
Fe 273.955†	233.1	0.0092	mg/L	0.00041	0.0092	mg/L	0.00041	4.47%
Mg 279.077†	698.0	0.0307	mg/L	0.00187	0.0307	mg/L	0.00187	6.09%
V 292.402†	59.6	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	61.87%
Al 308.215†	-1420.1	-0.0363	mg/L	0.00175	-0.0363	mg/L	0.00175	4.83%
Be 313.107†	78.9	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	386.21%
Cu 324.752†	-0.5	0.0000	mg/L	0.00018	0.0000	mg/L	0.00018	>999.9%
Ag 338.289†	150.6	0.0006	mg/L	0.00027	0.0006	mg/L	0.00027	44.25%
Na 330.237†	45.8	0.0313	mg/L	0.04471	0.0313	mg/L	0.04471	143.02%
Ca 227.546†	33.2	0.0605	mg/L	0.02661	0.0605	mg/L	0.02661	44.01%
Al RADIAL†	-115.1	-0.0338	mg/L	0.00218	-0.0338	mg/L	0.00218	6.45%
Fe RADIAL†	-1.2	-0.0085	mg/L	0.00487	-0.0085	mg/L	0.00487	57.52%
Ca RADIAL†	187.2	0.0536	mg/L	0.00199	0.0536	mg/L	0.00199	3.71%
K RADIAL†	-13.1	-0.0064	mg/L	0.02841	-0.0064	mg/L	0.02841	443.93%
Mg RADIAL†	1.8	0.0118	mg/L	0.00697	0.0118	mg/L	0.00697	58.89%
Na RADIAL†	1459.9	0.0561	mg/L	0.03908	0.0561	mg/L	0.03908	69.70%

Sequence No.: 53
Sample ID: BJ20717-DUP1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 10/15/2012 10:12:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20717-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18572582.9	5.085	mg/L	0.0111				0.22%
Y RADIAL	341684.0	5.066	mg/L	0.0385				0.76%
As 188.979†	7.5	0.0019	mg/L	0.00299	0.0019	mg/L	0.00299	158.08%
Tl 190.801†	-3.5	-0.0009	mg/L	0.00216	-0.0009	mg/L	0.00216	253.19%

Se 196.026†	3.6	0.0017 mg/L	0.00244	0.0017 mg/L	0.00244	140.97%
Zn 206.200†	1664.0	0.0152 mg/L	0.00014	0.0152 mg/L	0.00014	0.89%
Sb 206.836†	-4.8	-0.0010 mg/L	0.00162	-0.0010 mg/L	0.00162	156.35%
Pb 220.353†	-0.1	0.0000 mg/L	0.00147	0.0000 mg/L	0.00147	>999.9%
Cd 226.502†	34.1	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.40%
Co 228.616†	19.8	0.0005 mg/L	0.00054	0.0005 mg/L	0.00054	111.98%
Ni 232.003†	8.5	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	40.64%
Ba 233.527†	104.7	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.11%
Mn 257.610†	211.0	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	3.96%
Cr 267.716†	36.8	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	44.10%
Fe 273.955†	248.8	0.0098 mg/L	0.00085	0.0098 mg/L	0.00085	8.61%
Mg 279.077†	739.9	0.0325 mg/L	0.00094	0.0325 mg/L	0.00094	2.88%
V 292.402†	57.2	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	110.91%
Al 308.215†	-1429.6	-0.0365 mg/L	0.00059	-0.0365 mg/L	0.00059	1.61%
Be 313.107†	405.8	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	13.92%
Cu 324.752†	24.9	0.0001 mg/L	0.00017	0.0001 mg/L	0.00017	281.04%
Ag 338.289†	100.9	0.0004 mg/L	0.00027	0.0004 mg/L	0.00027	66.93%
Na 330.237†	-18.8	-0.0126 mg/L	0.06825	-0.0126 mg/L	0.06825	541.50%
Ca 227.546†	35.0	0.0638 mg/L	0.00811	0.0638 mg/L	0.00811	12.71%
Al RADIAL†	-125.3	-0.0368 mg/L	0.00136	-0.0368 mg/L	0.00136	3.68%
Fe RADIAL†	-0.8	-0.0053 mg/L	0.00737	-0.0053 mg/L	0.00737	138.19%
Ca RADIAL†	213.9	0.0612 mg/L	0.00343	0.0612 mg/L	0.00343	5.60%
K RADIAL†	14.8	0.0072 mg/L	0.01749	0.0072 mg/L	0.01749	241.89%
Mg RADIAL†	6.1	0.0411 mg/L	0.01547	0.0411 mg/L	0.01547	37.62%
Na RADIAL†	1871.4	0.0719 mg/L	0.02812	0.0719 mg/L	0.02812	39.13%

Sequence No.: 54
Sample ID: BJ20717-MS1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 10/15/2012 10:17:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20717-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18448979.2	5.052	mg/L	0.0321				0.63%
Y RADIAL	341667.7	5.066	mg/L	0.0185				0.37%
As 188.979†	7897.0	2.005	mg/L	0.0132	2.005	mg/L	0.0132	0.66%
Tl 190.801†	9372.4	2.285	mg/L	0.0176	2.285	mg/L	0.0176	0.77%
Se 196.026†	4220.9	2.011	mg/L	0.0089	2.011	mg/L	0.0089	0.44%
Zn 206.200†	57958.9	0.5291	mg/L	0.00377	0.5291	mg/L	0.00377	0.71%
Sb 206.836†	1175.2	0.2540	mg/L	0.00345	0.2540	mg/L	0.00345	1.36%
Pb 220.353†	5499.6	0.5374	mg/L	0.00172	0.5374	mg/L	0.00172	0.32%
Cd 226.502†	11196.5	0.0524	mg/L	0.00015	0.0524	mg/L	0.00015	0.28%
Co 228.616†	22263.4	0.5460	mg/L	0.00452	0.5460	mg/L	0.00452	0.83%
Ni 232.003†	11884.5	0.5342	mg/L	0.00093	0.5342	mg/L	0.00093	0.17%
Ba 233.527†	374322.1	2.215	mg/L	0.0150	2.215	mg/L	0.0150	0.68%
Mn 257.610†	502094.8	0.5354	mg/L	0.00474	0.5354	mg/L	0.00474	0.89%
Cr 267.716†	33244.0	0.2123	mg/L	0.00056	0.2123	mg/L	0.00056	0.26%
Fe 273.955†	27536.1	1.089	mg/L	0.0078	1.089	mg/L	0.0078	0.72%
Mg 279.077†	765.1	0.0337	mg/L	0.00076	0.0337	mg/L	0.00076	2.27%
V 292.402†	194230.7	0.5058	mg/L	0.00512	0.5058	mg/L	0.00512	1.01%
Al 308.215†	74398.3	1.902	mg/L	0.0235	1.902	mg/L	0.0235	1.24%
Be 313.107†	260873.4	0.0507	mg/L	0.00073	0.0507	mg/L	0.00073	1.44%
Cu 324.752†	106779.2	0.2604	mg/L	0.00332	0.2604	mg/L	0.00332	1.28%
Ag 338.289†	12715.0	0.0517	mg/L	0.00055	0.0517	mg/L	0.00055	1.06%
Na 330.237†	-525.3	-0.3510	mg/L	0.02186	-0.3510	mg/L	0.02186	6.23%
Ca 227.546†	73.9	0.1407	mg/L	0.03186	0.1407	mg/L	0.03186	22.64%
Al RADIAL†	6796.9	1.998	mg/L	0.0097	1.998	mg/L	0.0097	0.48%
Fe RADIAL†	152.1	1.041	mg/L	0.0142	1.041	mg/L	0.0142	1.36%
Ca RADIAL†	229.2	0.0656	mg/L	0.00167	0.0656	mg/L	0.00167	2.55%
K RADIAL†	11.8	0.0058	mg/L	0.01744	0.0058	mg/L	0.01744	302.76%
Mg RADIAL†	4.2	0.0280	mg/L	0.01119	0.0280	mg/L	0.01119	39.92%
Na RADIAL†	1146.7	0.0440	mg/L	0.02499	0.0440	mg/L	0.02499	56.73%

Sequence No.: 55
Sample ID: 12J0467-01
Analyst: MW
Initial Sample Wt:

Autosampler Location: 45
Date Collected: 10/15/2012 10:26:27 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: 12J0467-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17584773.9	4.815	mg/L	0.0165				0.34%
Y RADIAL	338158.9	5.014	mg/L	0.0308				0.62%
As 188.979†	4.4	0.0017	mg/L	0.00284	0.0017	mg/L	0.00284	170.41%
Tl 190.801†	-4.0	-0.0007	mg/L	0.00124	-0.0007	mg/L	0.00124	182.63%
Se 196.026†	4.6	0.0049	mg/L	0.00103	0.0049	mg/L	0.00103	21.15%
Zn 206.200†	4604.6	0.0419	mg/L	0.00040	0.0419	mg/L	0.00040	0.97%
Sb 206.836†	-8.9	-0.0019	mg/L	0.00159	-0.0019	mg/L	0.00159	82.53%
Pb 220.353†	-4.7	-0.0002	mg/L	0.00031	-0.0002	mg/L	0.00031	177.77%
Cd 226.502†	120.0	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	27.91%
Co 228.616†	23.0	0.0006	mg/L	0.00024	0.0006	mg/L	0.00024	42.29%
Ni 232.003†	28.9	0.0019	mg/L	0.00108	0.0019	mg/L	0.00108	56.49%
Ba 233.527†	36951.7	0.2187	mg/L	0.00076	0.2187	mg/L	0.00076	0.35%
Mn 257.610†	527246.4	0.5621	mg/L	0.00125	0.5621	mg/L	0.00125	0.22%
Cr 267.716†	30.3	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	53.09%
Fe 273.955†	95592.8	3.781	mg/L	0.0068	3.781	mg/L	0.0068	0.18%
Mg 279.077†	340801.9	14.99	mg/L	0.049	14.99	mg/L	0.049	0.33%
V 292.402†	587.8	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	10.20%
Al 308.215†	-331.8	-0.0093	mg/L	0.00274	-0.0093	mg/L	0.00274	29.57%
Be 313.107†	-213.2	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	131.22%
Cu 324.752†	544.4	0.0000	mg/L	0.00021	0.0000	mg/L	0.00021	>999.9%
Ag 338.289†	193.7	0.0001	mg/L	0.00041	0.0001	mg/L	0.00041	459.49%
Na 330.237†	218532.7	148.5	mg/L	0.82	148.5	mg/L	0.82	0.55%
Ca 227.546†	36425.1	66.38	mg/L	0.277	66.38	mg/L	0.277	0.42%
Al RADIAL†	-45.7	-0.0134	mg/L	0.00288	-0.0134	mg/L	0.00288	21.48%
Fe RADIAL†	564.0	3.859	mg/L	0.0741	3.859	mg/L	0.0741	1.92%
Ca RADIAL†	243064.4	69.55	mg/L	0.183	69.55	mg/L	0.183	0.26%
K RADIAL†	10222.4	4.992	mg/L	0.0315	4.992	mg/L	0.0315	0.63%
Mg RADIAL†	2221.0	14.97	mg/L	0.160	14.97	mg/L	0.160	1.07%
Na RADIAL†	3158111.8	121.3	mg/L	0.62	121.3	mg/L	0.62	0.51%

Sequence No.: 56
Sample ID: 12J0471-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 10/15/2012 10:31:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16711534.6	4.576	mg/L	0.0133				0.29%
Y RADIAL	328213.1	4.866	mg/L	0.0110				0.23%
As 188.979†	123.6	0.0314	mg/L	0.00263	0.0314	mg/L	0.00263	8.36%
Tl 190.801†	-10.1	-0.0024	mg/L	0.00156	-0.0024	mg/L	0.00156	64.63%
Se 196.026†	10.3	0.0052	mg/L	0.00167	0.0052	mg/L	0.00167	32.31%
Zn 206.200†	2501.7	0.0228	mg/L	0.00008	0.0228	mg/L	0.00008	0.34%
Sb 206.836†	2.6	0.0006	mg/L	0.00171	0.0006	mg/L	0.00171	307.54%
Pb 220.353†	33.3	0.0036	mg/L	0.00050	0.0036	mg/L	0.00050	14.05%
Cd 226.502†	16.9	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	398.64%
Co 228.616†	31.8	0.0008	mg/L	0.00025	0.0008	mg/L	0.00025	32.03%
Ni 232.003†	5.3	0.0003	mg/L	0.00080	0.0003	mg/L	0.00080	263.70%
Ba 233.527†	11312.6	0.0670	mg/L	0.00019	0.0670	mg/L	0.00019	0.29%
Mn 257.610†	224386.6	0.2391	mg/L	0.00162	0.2391	mg/L	0.00162	0.68%
Cr 267.716†	149.3	0.0010	mg/L	0.00015	0.0010	mg/L	0.00015	15.45%
Fe 273.955†	9958.2	0.3938	mg/L	0.00085	0.3938	mg/L	0.00085	0.21%
Mg 279.077†	198527.5	8.731	mg/L	0.0584	8.731	mg/L	0.0584	0.67%
V 292.402†	2600.0	0.0067	mg/L	0.00026	0.0067	mg/L	0.00026	3.87%
Al 308.215†	100.2	0.0020	mg/L	0.00282	0.0020	mg/L	0.00282	138.66%
Be 313.107†	-507.5	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	17.10%
Cu 324.752†	4841.3	0.0111	mg/L	0.00014	0.0111	mg/L	0.00014	1.25%
Ag 338.289†	150.4	0.0003	mg/L	0.00043	0.0003	mg/L	0.00043	155.52%
Na 330.237†	995436.7	675.9	mg/L	4.13	675.9	mg/L	4.13	0.61%
Ca 227.546†	17540.0	31.96	mg/L	0.383	31.96	mg/L	0.383	1.20%
Al RADIAL†	-74.1	-0.0218	mg/L	0.00236	-0.0218	mg/L	0.00236	10.84%
Fe RADIAL†	56.4	0.3857	mg/L	0.01626	0.3857	mg/L	0.01626	4.22%

Ca RADIAL†	114851.4	32.86 mg/L	0.139	32.86 mg/L	0.139	0.42%
K RADIAL†	38046.8	18.58 mg/L	0.095	18.58 mg/L	0.095	0.51%
Mg RADIAL†	1318.6	8.886 mg/L	0.0389	8.886 mg/L	0.0389	0.44%
Na RADIAL†	10100782.9	388.0 mg/L	1.32	388.0 mg/L	1.32	0.34%

Sequence No.: 57
Sample ID: 12J0471-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 10/15/2012 10:37:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16695950.1	4.572	mg/L	0.0327				0.72%
Y RADIAL	327660.0	4.858	mg/L	0.0362				0.74%
As 188.979†	138.0	0.0352	mg/L	0.00109	0.0352	mg/L	0.00109	3.10%
Tl 190.801†	-2.7	-0.0005	mg/L	0.00154	-0.0005	mg/L	0.00154	285.76%
Se 196.026†	4.8	0.0033	mg/L	0.00464	0.0033	mg/L	0.00464	141.66%
Zn 206.200†	974.9	0.0088	mg/L	0.00024	0.0088	mg/L	0.00024	2.67%
Sb 206.836†	5.2	0.0011	mg/L	0.00245	0.0011	mg/L	0.00245	218.51%
Pb 220.353†	135.2	0.0135	mg/L	0.00028	0.0135	mg/L	0.00028	2.08%
Cd 226.502†	46.2	-0.0001	mg/L	0.00013	-0.0001	mg/L	0.00013	257.61%
Co 228.616†	32.2	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	10.52%
Ni 232.003†	19.3	0.0011	mg/L	0.00043	0.0011	mg/L	0.00043	38.89%
Ba 233.527†	14709.2	0.0871	mg/L	0.00067	0.0871	mg/L	0.00067	0.77%
Mn 257.610†	349133.4	0.3721	mg/L	0.00111	0.3721	mg/L	0.00111	0.30%
Cr 267.716†	242.8	0.0016	mg/L	0.00012	0.0016	mg/L	0.00012	8.05%
Fe 273.955†	35863.6	1.418	mg/L	0.0080	1.418	mg/L	0.0080	0.56%
Mg 279.077†	265515.9	11.68	mg/L	0.045	11.68	mg/L	0.045	0.39%
V 292.402†	2720.8	0.0070	mg/L	0.00025	0.0070	mg/L	0.00025	3.60%
Al 308.215†	9167.2	0.2338	mg/L	0.00444	0.2338	mg/L	0.00444	1.90%
Be 313.107†	-732.0	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	43.82%
Cu 324.752†	5631.5	0.0129	mg/L	0.00016	0.0129	mg/L	0.00016	1.22%
Ag 338.289†	68.5	-0.0001	mg/L	0.00032	-0.0001	mg/L	0.00032	287.63%
Na 330.237†	1075973.0	730.6	mg/L	2.98	730.6	mg/L	2.98	0.41%
Ca 227.546†	20334.6	37.06	mg/L	0.161	37.06	mg/L	0.161	0.44%
Al RADIAL†	749.8	0.2204	mg/L	0.00293	0.2204	mg/L	0.00293	1.33%
Fe RADIAL†	211.3	1.446	mg/L	0.0169	1.446	mg/L	0.0169	1.17%
Ca RADIAL†	133189.3	38.11	mg/L	0.125	38.11	mg/L	0.125	0.33%
K RADIAL†	41069.2	20.05	mg/L	0.116	20.05	mg/L	0.116	0.58%
Mg RADIAL†	1761.5	11.87	mg/L	0.050	11.87	mg/L	0.050	0.42%
Na RADIAL†	10486131.8	402.8	mg/L	2.00	402.8	mg/L	2.00	0.50%

Sequence No.: 58
Sample ID: 12J0471-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 10/15/2012 10:42:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16826252.6	4.607	mg/L	0.0201				0.44%
Y RADIAL	326405.1	4.840	mg/L	0.0444				0.92%
As 188.979†	123.2	0.0314	mg/L	0.00048	0.0314	mg/L	0.00048	1.54%
Tl 190.801†	-10.1	-0.0024	mg/L	0.00102	-0.0024	mg/L	0.00102	42.21%
Se 196.026†	6.0	0.0033	mg/L	0.00373	0.0033	mg/L	0.00373	114.39%
Zn 206.200†	2177.7	0.0199	mg/L	0.00003	0.0199	mg/L	0.00003	0.15%
Sb 206.836†	-0.8	-0.0002	mg/L	0.00177	-0.0002	mg/L	0.00177	>999.9%
Pb 220.353†	30.6	0.0033	mg/L	0.00106	0.0033	mg/L	0.00106	32.26%
Cd 226.502†	7.2	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	43.09%
Co 228.616†	24.9	0.0006	mg/L	0.00024	0.0006	mg/L	0.00024	39.43%
Ni 232.003†	25.9	0.0013	mg/L	0.00081	0.0013	mg/L	0.00081	64.49%
Ba 233.527†	11894.5	0.0704	mg/L	0.00027	0.0704	mg/L	0.00027	0.38%
Mn 257.610†	248120.8	0.2644	mg/L	0.00101	0.2644	mg/L	0.00101	0.38%
Cr 267.716†	168.7	0.0011	mg/L	0.00013	0.0011	mg/L	0.00013	12.35%
Fe 273.955†	15379.4	0.6082	mg/L	0.00467	0.6082	mg/L	0.00467	0.77%

Mg 279.077†	214549.3	9.436	mg/L	0.0416	9.436	mg/L	0.0416	0.44%
V 292.402†	2436.0	0.0063	mg/L	0.00011	0.0063	mg/L	0.00011	1.74%
Al 308.215†	393.6	0.0095	mg/L	0.00060	0.0095	mg/L	0.00060	6.35%
Be 313.107†	-630.2	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	40.48%
Cu 324.752†	4818.9	0.0110	mg/L	0.00008	0.0110	mg/L	0.00008	0.71%
Ag 338.289†	208.0	0.0005	mg/L	0.00046	0.0005	mg/L	0.00046	93.38%
Na 330.237†	1007120.4	683.9	mg/L	4.59	683.9	mg/L	4.59	0.67%
Ca 227.546†	18266.2	33.28	mg/L	0.229	33.28	mg/L	0.229	0.69%
Al RADIAL†	-24.7	-0.0073	mg/L	0.00177	-0.0073	mg/L	0.00177	24.34%
Fe RADIAL†	91.1	0.6232	mg/L	0.01293	0.6232	mg/L	0.01293	2.07%
Ca RADIAL†	120266.3	34.41	mg/L	0.121	34.41	mg/L	0.121	0.35%
K RADIAL†	39066.1	19.08	mg/L	0.270	19.08	mg/L	0.270	1.42%
Mg RADIAL†	1443.8	9.730	mg/L	0.1058	9.730	mg/L	0.1058	1.09%
Na RADIAL†	10066729.0	386.7	mg/L	3.44	386.7	mg/L	3.44	0.89%

Sequence No.: 59
Sample ID: CCV-5
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 10:47:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17549530.2	4.805	mg/L	0.0338				0.70%
Y RADIAL	323958.5	4.803	mg/L	0.0585				1.22%
As 188.979†	933.4	0.2377	mg/L	0.00336	0.2377	mg/L	0.00336	1.42%
Tl 190.801†	983.0	0.2401	mg/L	0.00072	0.2401	mg/L	0.00072	0.30%
Se 196.026†	498.3	0.2409	mg/L	0.00254	0.2409	mg/L	0.00254	1.05%
Zn 206.200†	276002.3	2.519	mg/L	0.0182	2.519	mg/L	0.0182	0.72%
Sb 206.836†	1125.9	0.2432	mg/L	0.00263	0.2432	mg/L	0.00263	1.08%
Pb 220.353†	2570.8	0.2517	mg/L	0.00156	0.2517	mg/L	0.00156	0.62%
Cd 226.502†	26189.1	0.1221	mg/L	0.00078	0.1221	mg/L	0.00078	0.64%
Co 228.616†	102722.1	2.519	mg/L	0.0133	2.519	mg/L	0.0133	0.53%
Ni 232.003†	54792.0	2.463	mg/L	0.0155	2.463	mg/L	0.0155	0.63%
Ba 233.527†	1710694.0	10.13	mg/L	0.094	10.13	mg/L	0.094	0.92%
Mn 257.610†	2341698.3	2.497	mg/L	0.0234	2.497	mg/L	0.0234	0.94%
Cr 267.716†	155247.4	0.9914	mg/L	0.00957	0.9914	mg/L	0.00957	0.97%
Fe 273.955†	126488.1	5.002	mg/L	0.0255	5.002	mg/L	0.0255	0.51%
Mg 279.077†	557894.2	24.54	mg/L	0.267	24.54	mg/L	0.267	1.09%
V 292.402†	942968.1	2.456	mg/L	0.0437	2.456	mg/L	0.0437	1.78%
Al 308.215†	376255.1	9.617	mg/L	0.0976	9.617	mg/L	0.0976	1.01%
Be 313.107†	1278881.9	0.2487	mg/L	0.00617	0.2487	mg/L	0.00617	2.48%
Cu 324.752†	495129.5	1.207	mg/L	0.0101	1.207	mg/L	0.0101	0.84%
Ag 338.289†	301640.8	1.227	mg/L	0.0122	1.227	mg/L	0.0122	0.99%
Na 330.237†	33533.1	22.84	mg/L	0.048	22.84	mg/L	0.048	0.21%
Ca 227.546†	13263.4	24.20	mg/L	0.253	24.20	mg/L	0.253	1.04%
Al RADIAL†	33172.9	9.752	mg/L	0.0588	9.752	mg/L	0.0588	0.60%
Fe RADIAL†	716.8	4.905	mg/L	0.0601	4.905	mg/L	0.0601	1.23%
Ca RADIAL†	86401.1	24.72	mg/L	0.048	24.72	mg/L	0.048	0.20%
K RADIAL†	9869.9	4.819	mg/L	0.0420	4.819	mg/L	0.0420	0.87%
Mg RADIAL†	3669.1	24.73	mg/L	0.321	24.73	mg/L	0.321	1.30%
Na RADIAL†	641126.6	24.62	mg/L	0.104	24.62	mg/L	0.104	0.42%

Sequence No.: 60
Sample ID: CCB-5
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/15/2012 10:56:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18280064.6	5.005	mg/L	0.0572				1.14%
Y RADIAL	337337.5	5.002	mg/L	0.0084				0.17%
As 188.979†	1.6	0.0004	mg/L	0.00123	0.0004	mg/L	0.00123	309.09%
Tl 190.801†	1.8	0.0004	mg/L	0.00091	0.0004	mg/L	0.00091	206.70%
Se 196.026†	-2.8	-0.0013	mg/L	0.00254	-0.0013	mg/L	0.00254	190.83%

Zn 206.200†	90.0	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	11.92%
Sb 206.836†	-2.8	-0.0006 mg/L	0.00128	-0.0006 mg/L	0.00128	208.00%
Pb 220.353†	6.8	0.0007 mg/L	0.00028	0.0007 mg/L	0.00028	41.71%
Cd 226.502†	25.8	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	52.76%
Co 228.616†	47.2	0.0012 mg/L	0.00025	0.0012 mg/L	0.00025	21.40%
Ni 232.003†	6.7	0.0003 mg/L	0.00100	0.0003 mg/L	0.00100	333.24%
Ba 233.527†	822.9	0.0049 mg/L	0.00030	0.0049 mg/L	0.00030	6.20%
Mn 257.610†	1094.6	0.0012 mg/L	0.00008	0.0012 mg/L	0.00008	6.57%
Cr 267.716†	70.4	0.0004 mg/L	0.00010	0.0004 mg/L	0.00010	22.00%
Fe 273.955†	60.9	0.0024 mg/L	0.00051	0.0024 mg/L	0.00051	20.96%
Mg 279.077†	248.6	0.0109 mg/L	0.00093	0.0109 mg/L	0.00093	8.51%
V 292.402†	465.4	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011	9.29%
Al 308.215†	68.8	0.0018 mg/L	0.00397	0.0018 mg/L	0.00397	225.84%
Be 313.107†	923.9	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	4.03%
Cu 324.752†	134.1	0.0003 mg/L	0.00023	0.0003 mg/L	0.00023	70.59%
Ag 338.289†	1149.9	0.0047 mg/L	0.00016	0.0047 mg/L	0.00016	3.37%
Na 330.237†	53.8	0.0366 mg/L	0.02227	0.0366 mg/L	0.02227	60.82%
Ca 227.546†	13.4	0.0244 mg/L	0.02972	0.0244 mg/L	0.02972	122.00%
Al RADIAL†	11.4	0.0033 mg/L	0.00140	0.0033 mg/L	0.00140	41.82%
Fe RADIAL†	0.8	0.0052 mg/L	0.01542	0.0052 mg/L	0.01542	296.07%
Ca RADIAL†	74.0	0.0212 mg/L	0.00147	0.0212 mg/L	0.00147	6.92%
K RADIAL†	41.3	0.0201 mg/L	0.01047	0.0201 mg/L	0.01047	51.97%
Mg RADIAL†	3.3	0.0225 mg/L	0.00921	0.0225 mg/L	0.00921	40.89%
Na RADIAL†	128.1	0.0049 mg/L	0.00970	0.0049 mg/L	0.00970	197.09%

Sequence No.: 61
Sample ID: 12J0471-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 10/15/2012 11:01:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16696137.6	4.572	mg/L	0.0321				0.70%
Y RADIAL	323993.2	4.804	mg/L	0.0455				0.95%
As 188.979†	116.4	0.0296	mg/L	0.00270	0.0296	mg/L	0.00270	9.10%
Tl 190.801†	-8.2	-0.0020	mg/L	0.00199	-0.0020	mg/L	0.00199	101.98%
Se 196.026†	12.9	0.0066	mg/L	0.00021	0.0066	mg/L	0.00021	3.20%
Zn 206.200†	2148.6	0.0196	mg/L	0.00032	0.0196	mg/L	0.00032	1.62%
Sb 206.836†	5.1	0.0011	mg/L	0.00288	0.0011	mg/L	0.00288	260.36%
Pb 220.353†	71.7	0.0073	mg/L	0.00138	0.0073	mg/L	0.00138	18.85%
Cd 226.502†	47.4	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	97.47%
Co 228.616†	31.2	0.0008	mg/L	0.00014	0.0008	mg/L	0.00014	18.63%
Ni 232.003†	9.0	0.0005	mg/L	0.00034	0.0005	mg/L	0.00034	66.61%
Ba 233.527†	12444.9	0.0737	mg/L	0.00034	0.0737	mg/L	0.00034	0.47%
Mn 257.610†	259557.1	0.2766	mg/L	0.00200	0.2766	mg/L	0.00200	0.72%
Cr 267.716†	216.6	0.0014	mg/L	0.00020	0.0014	mg/L	0.00020	14.25%
Fe 273.955†	15784.0	0.6242	mg/L	0.00539	0.6242	mg/L	0.00539	0.86%
Mg 279.077†	215932.6	9.497	mg/L	0.0868	9.497	mg/L	0.0868	0.91%
V 292.402†	2636.9	0.0068	mg/L	0.00022	0.0068	mg/L	0.00022	3.22%
Al 308.215†	6012.2	0.1531	mg/L	0.00658	0.1531	mg/L	0.00658	4.30%
Be 313.107†	-611.4	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	8.75%
Cu 324.752†	5501.5	0.0127	mg/L	0.00037	0.0127	mg/L	0.00037	2.96%
Ag 338.289†	162.9	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	24.99%
Na 330.237†	1009359.4	685.4	mg/L	5.59	685.4	mg/L	5.59	0.82%
Ca 227.546†	18028.8	32.85	mg/L	0.374	32.85	mg/L	0.374	1.14%
Al RADIAL†	458.5	0.1348	mg/L	0.00233	0.1348	mg/L	0.00233	1.73%
Fe RADIAL†	94.4	0.6459	mg/L	0.02752	0.6459	mg/L	0.02752	4.26%
Ca RADIAL†	118601.3	33.94	mg/L	0.023	33.94	mg/L	0.023	0.07%
K RADIAL†	38624.1	18.86	mg/L	0.115	18.86	mg/L	0.115	0.61%
Mg RADIAL†	1452.2	9.787	mg/L	0.1007	9.787	mg/L	0.1007	1.03%
Na RADIAL†	10203478.7	391.9	mg/L	1.61	391.9	mg/L	1.61	0.41%

Sequence No.: 62
Sample ID: 12J0471-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 10/15/2012 11:07:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16369137.9	4.482	mg/L	0.0228				0.51%
Y RADIAL	326246.2	4.837	mg/L	0.0179				0.37%
As 188.979†	-6.7	0.0001	mg/L	0.00266	0.0001	mg/L	0.00266	>999.9%
Tl 190.801†	4.4	0.0021	mg/L	0.00219	0.0021	mg/L	0.00219	106.59%
Se 196.026†	1.6	0.0095	mg/L	0.00231	0.0095	mg/L	0.00231	24.28%
Zn 206.200†	3245.7	0.0290	mg/L	0.00014	0.0290	mg/L	0.00014	0.49%
Sb 206.836†	-13.5	-0.0029	mg/L	0.00217	-0.0029	mg/L	0.00217	74.27%
Pb 220.353†	8.7	0.0002	mg/L	0.00154	0.0002	mg/L	0.00154	660.77%
Cd 226.502†	291.3	-0.0010	mg/L	0.00008	-0.0010	mg/L	0.00008	7.93%
Co 228.616†	15.5	0.0004	mg/L	0.00032	0.0004	mg/L	0.00032	82.96%
Ni 232.003†	24.3	0.0031	mg/L	0.00067	0.0031	mg/L	0.00067	21.48%
Ba 233.527†	62774.3	0.3715	mg/L	0.00227	0.3715	mg/L	0.00227	0.61%
Mn 257.610†	3699840.1	3.945	mg/L	0.0342	3.945	mg/L	0.0342	0.87%
Cr 267.716†	27.1	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	68.96%
Fe 273.955†	314515.3	12.44	mg/L	0.082	12.44	mg/L	0.082	0.66%
Mg 279.077†	305027.8	13.41	mg/L	0.095	13.41	mg/L	0.095	0.71%
V 292.402†	1653.7	0.0033	mg/L	0.00009	0.0033	mg/L	0.00009	2.74%
Al 308.215†	61.5	0.0014	mg/L	0.00623	0.0014	mg/L	0.00623	460.14%
Be 313.107†	-1075.5	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	9.60%
Cu 324.752†	-211.2	-0.0018	mg/L	0.00020	-0.0018	mg/L	0.00020	11.36%
Ag 338.289†	123.6	-0.0004	mg/L	0.00022	-0.0004	mg/L	0.00022	56.14%
Na 330.237†	1458789.1	990.7	mg/L	10.24	990.7	mg/L	10.24	1.03%
Ca 227.546†	46921.9	85.55	mg/L	0.863	85.55	mg/L	0.863	1.01%
Al RADIAL†	-90.8	-0.0267	mg/L	0.00150	-0.0267	mg/L	0.00150	5.63%
Fe RADIAL†	1823.6	12.48	mg/L	0.031	12.48	mg/L	0.031	0.25%
Ca RADIAL†	303778.5	86.92	mg/L	0.236	86.92	mg/L	0.236	0.27%
K RADIAL†	52022.7	25.40	mg/L	0.065	25.40	mg/L	0.065	0.25%
Mg RADIAL†	1963.9	13.24	mg/L	0.098	13.24	mg/L	0.098	0.74%
Na RADIAL†	12560754.0	482.4	mg/L	4.97	482.4	mg/L	4.97	1.03%

Sequence No.: 63
Sample ID: 12J0471-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 10/15/2012 11:12:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16445867.3	4.503	mg/L	0.0042				0.09%
Y RADIAL	329180.9	4.881	mg/L	0.0524				1.07%
As 188.979†	-8.9	-0.0003	mg/L	0.00182	-0.0003	mg/L	0.00182	568.72%
Tl 190.801†	3.7	0.0020	mg/L	0.00201	0.0020	mg/L	0.00201	102.91%
Se 196.026†	4.9	0.0116	mg/L	0.00252	0.0116	mg/L	0.00252	21.81%
Zn 206.200†	2324.4	0.0206	mg/L	0.00012	0.0206	mg/L	0.00012	0.57%
Sb 206.836†	-19.1	-0.0041	mg/L	0.00121	-0.0041	mg/L	0.00121	29.33%
Pb 220.353†	53.2	0.0045	mg/L	0.00181	0.0045	mg/L	0.00181	39.96%
Cd 226.502†	308.4	-0.0010	mg/L	0.00006	-0.0010	mg/L	0.00006	5.63%
Co 228.616†	28.6	0.0007	mg/L	0.00013	0.0007	mg/L	0.00013	17.93%
Ni 232.003†	51.9	0.0045	mg/L	0.00095	0.0045	mg/L	0.00095	21.19%
Ba 233.527†	65048.7	0.3850	mg/L	0.00178	0.3850	mg/L	0.00178	0.46%
Mn 257.610†	3721852.3	3.969	mg/L	0.0041	3.969	mg/L	0.0041	0.10%
Cr 267.716†	184.6	0.0012	mg/L	0.00017	0.0012	mg/L	0.00017	14.61%
Fe 273.955†	331957.1	13.13	mg/L	0.062	13.13	mg/L	0.062	0.47%
Mg 279.077†	310071.3	13.64	mg/L	0.071	13.64	mg/L	0.071	0.52%
V 292.402†	2095.4	0.0044	mg/L	0.00016	0.0044	mg/L	0.00016	3.73%
Al 308.215†	19177.6	0.4900	mg/L	0.01053	0.4900	mg/L	0.01053	2.15%
Be 313.107†	-817.7	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	11.04%
Cu 324.752†	484.8	0.0000	mg/L	0.00033	0.0000	mg/L	0.00033	820.32%
Ag 338.289†	128.0	-0.0004	mg/L	0.00046	-0.0004	mg/L	0.00046	119.95%
Na 330.237†	1454159.8	987.6	mg/L	2.70	987.6	mg/L	2.70	0.27%
Ca 227.546†	47039.8	85.77	mg/L	0.530	85.77	mg/L	0.530	0.62%
Al RADIAL†	1566.6	0.4605	mg/L	0.01043	0.4605	mg/L	0.01043	2.26%
Fe RADIAL†	1908.2	13.06	mg/L	0.108	13.06	mg/L	0.108	0.83%
Ca RADIAL†	306757.6	87.78	mg/L	0.280	87.78	mg/L	0.280	0.32%

K RADIAL†	52064.1	25.42 mg/L	0.109	25.42 mg/L	0.109	0.43%
Mg RADIAL†	1987.8	13.40 mg/L	0.103	13.40 mg/L	0.103	0.77%
Na RADIAL†	12302290.9	472.5 mg/L	6.24	472.5 mg/L	6.24	1.32%

Sequence No.: 64
Sample ID: 12J0471-05
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 10/15/2012 11:18:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17351860.4	4.751	mg/L	0.0421				0.89%
Y RADIAL	323223.1	4.792	mg/L	0.0120				0.25%
As 188.979†	566.8	0.1441	mg/L	0.00380	0.1441	mg/L	0.00380	2.64%
Tl 190.801†	5.4	0.0014	mg/L	0.00051	0.0014	mg/L	0.00051	35.66%
Se 196.026†	11.3	0.0064	mg/L	0.00245	0.0064	mg/L	0.00245	38.22%
Zn 206.200†	1391.7	0.0126	mg/L	0.00018	0.0126	mg/L	0.00018	1.40%
Sb 206.836†	-7.9	-0.0017	mg/L	0.00089	-0.0017	mg/L	0.00089	52.30%
Pb 220.353†	-15.2	-0.0003	mg/L	0.00213	-0.0003	mg/L	0.00213	642.28%
Cd 226.502†	52.0	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	566.43%
Co 228.616†	24.7	0.0006	mg/L	0.00005	0.0006	mg/L	0.00005	8.44%
Ni 232.003†	-5.9	0.0000	mg/L	0.00116	0.0000	mg/L	0.00116	>999.9%
Ba 233.527†	31471.6	0.1863	mg/L	0.00175	0.1863	mg/L	0.00175	0.94%
Mn 257.610†	2436584.4	2.597	mg/L	0.0252	2.597	mg/L	0.0252	0.97%
Cr 267.716†	2.5	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	900.86%
Fe 273.955†	35970.1	1.423	mg/L	0.0184	1.423	mg/L	0.0184	1.29%
Mg 279.077†	677628.4	29.80	mg/L	0.290	29.80	mg/L	0.290	0.97%
V 292.402†	123.4	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	53.24%
Al 308.215†	-405.9	-0.0122	mg/L	0.00431	-0.0122	mg/L	0.00431	35.22%
Be 313.107†	-520.0	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	55.38%
Cu 324.752†	679.2	-0.0009	mg/L	0.00014	-0.0009	mg/L	0.00014	16.02%
Ag 338.289†	286.4	0.0000	mg/L	0.00021	0.0000	mg/L	0.00021	643.62%
Na 330.237†	240950.7	163.8	mg/L	1.70	163.8	mg/L	1.70	1.04%
Ca 227.546†	62406.6	113.7	mg/L	1.21	113.7	mg/L	1.21	1.07%
Al RADIAL†	-89.7	-0.0264	mg/L	0.00306	-0.0264	mg/L	0.00306	11.60%
Fe RADIAL†	217.4	1.488	mg/L	0.0175	1.488	mg/L	0.0175	1.17%
Ca RADIAL†	418875.3	119.9	mg/L	0.41	119.9	mg/L	0.41	0.34%
K RADIAL†	41844.6	20.43	mg/L	0.135	20.43	mg/L	0.135	0.66%
Mg RADIAL†	4660.5	31.41	mg/L	0.177	31.41	mg/L	0.177	0.57%
Na RADIAL†	3415467.1	131.2	mg/L	0.94	131.2	mg/L	0.94	0.71%

Sequence No.: 65
Sample ID: 12J0471-05
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 10/15/2012 11:23:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0471-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17137987.9	4.693	mg/L	0.0450				0.96%
Y RADIAL	325945.9	4.833	mg/L	0.0314				0.65%
As 188.979†	753.6	0.1923	mg/L	0.00426	0.1923	mg/L	0.00426	2.22%
Tl 190.801†	5.8	0.0019	mg/L	0.00074	0.0019	mg/L	0.00074	37.96%
Se 196.026†	4.7	0.0068	mg/L	0.00359	0.0068	mg/L	0.00359	53.01%
Zn 206.200†	1257.3	0.0112	mg/L	0.00010	0.0112	mg/L	0.00010	0.93%
Sb 206.836†	-21.0	-0.0045	mg/L	0.00121	-0.0045	mg/L	0.00121	26.64%
Pb 220.353†	7.8	0.0013	mg/L	0.00115	0.0013	mg/L	0.00115	89.84%
Cd 226.502†	156.7	-0.0005	mg/L	0.00006	-0.0005	mg/L	0.00006	13.31%
Co 228.616†	33.7	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	19.57%
Ni 232.003†	3.5	0.0012	mg/L	0.00103	0.0012	mg/L	0.00103	84.49%
Ba 233.527†	49434.5	0.2926	mg/L	0.00361	0.2926	mg/L	0.00361	1.23%
Mn 257.610†	2515571.2	2.682	mg/L	0.0271	2.682	mg/L	0.0271	1.01%
Cr 267.716†	32.0	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	52.27%
Fe 273.955†	164170.8	6.493	mg/L	0.0857	6.493	mg/L	0.0857	1.32%
Mg 279.077†	682623.6	30.02	mg/L	0.268	30.02	mg/L	0.268	0.89%

V 292.402†	745.3	0.0014 mg/L	0.00033	0.0014 mg/L	0.00033	23.57%
Al 308.215†	3233.7	0.0812 mg/L	0.00348	0.0812 mg/L	0.00348	4.28%
Be 313.107†	-265.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	27.62%
Cu 324.752†	979.2	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	576.23%
Ag 338.289†	170.8	-0.0005 mg/L	0.00011	-0.0005 mg/L	0.00011	21.96%
Na 330.237†	242823.9	165.1 mg/L	2.12	165.1 mg/L	2.12	1.28%
Ca 227.546†	63468.0	115.7 mg/L	1.31	115.7 mg/L	1.31	1.13%
Al RADIAL†	271.0	0.0797 mg/L	0.00549	0.0797 mg/L	0.00549	6.89%
Fe RADIAL†	957.9	6.554 mg/L	0.0425	6.554 mg/L	0.0425	0.65%
Ca RADIAL†	425476.6	121.7 mg/L	0.50	121.7 mg/L	0.50	0.41%
K RADIAL†	40488.7	19.77 mg/L	0.067	19.77 mg/L	0.067	0.34%
Mg RADIAL†	4560.2	30.73 mg/L	0.084	30.73 mg/L	0.084	0.27%
Na RADIAL†	3361195.3	129.1 mg/L	0.38	129.1 mg/L	0.38	0.30%

Sequence No.: 66
Sample ID: 12J0501-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 10/15/2012 11:29:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0501-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17553990.1	4.807	mg/L	0.0537				1.12%
Y RADIAL	337655.1	5.006	mg/L	0.0432				0.86%
As 188.979†	5.9	0.0015	mg/L	0.00164	0.0015	mg/L	0.00164	110.29%
Tl 190.801†	-4.9	-0.0012	mg/L	0.00321	-0.0012	mg/L	0.00321	266.26%
Se 196.026†	5.5	0.0026	mg/L	0.00218	0.0026	mg/L	0.00218	82.36%
Zn 206.200†	432.6	0.0039	mg/L	0.00001	0.0039	mg/L	0.00001	0.31%
Sb 206.836†	-6.5	-0.0014	mg/L	0.00077	-0.0014	mg/L	0.00077	54.52%
Pb 220.353†	-25.3	-0.0015	mg/L	0.00117	-0.0015	mg/L	0.00117	77.26%
Cd 226.502†	19.6	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	84.62%
Co 228.616†	48.4	0.0012	mg/L	0.00030	0.0012	mg/L	0.00030	25.32%
Ni 232.003†	31.2	0.0014	mg/L	0.00086	0.0014	mg/L	0.00086	61.25%
Ba 233.527†	10591.4	0.0627	mg/L	0.00083	0.0627	mg/L	0.00083	1.32%
Mn 257.610†	202107.6	0.2152	mg/L	0.00250	0.2152	mg/L	0.00250	1.16%
Cr 267.716†	-7.3	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	157.58%
Fe 273.955†	248.0	0.0098	mg/L	0.00070	0.0098	mg/L	0.00070	7.14%
Mg 279.077†	415624.4	18.28	mg/L	0.218	18.28	mg/L	0.218	1.19%
V 292.402†	2265.5	0.0059	mg/L	0.00020	0.0059	mg/L	0.00020	3.46%
Al 308.215†	69.6	0.0004	mg/L	0.00380	0.0004	mg/L	0.00380	874.00%
Be 313.107†	-381.7	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	28.19%
Cu 324.752†	5176.2	0.0108	mg/L	0.00034	0.0108	mg/L	0.00034	3.17%
Ag 338.289†	177.8	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	156.32%
Na 330.237†	262267.6	178.2	mg/L	3.06	178.2	mg/L	3.06	1.72%
Ca 227.546†	44665.2	81.38	mg/L	1.264	81.38	mg/L	1.264	1.55%
Al RADIAL†	-49.9	-0.0147	mg/L	0.00434	-0.0147	mg/L	0.00434	29.54%
Fe RADIAL†	-1.3	-0.0086	mg/L	0.00780	-0.0086	mg/L	0.00780	90.68%
Ca RADIAL†	297586.6	85.15	mg/L	0.433	85.15	mg/L	0.433	0.51%
K RADIAL†	17264.0	8.430	mg/L	0.0472	8.430	mg/L	0.0472	0.56%
Mg RADIAL†	2699.6	18.19	mg/L	0.202	18.19	mg/L	0.202	1.11%
Na RADIAL†	3596875.6	138.2	mg/L	1.65	138.2	mg/L	1.65	1.19%

Sequence No.: 67
Sample ID: 12J0501-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 10/15/2012 11:34:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0501-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17346822.9	4.750	mg/L	0.0267				0.56%
Y RADIAL	339440.9	5.033	mg/L	0.0312				0.62%
As 188.979†	-0.7	-0.0001	mg/L	0.00429	-0.0001	mg/L	0.00429	>999.9%
Tl 190.801†	-10.9	-0.0026	mg/L	0.00088	-0.0026	mg/L	0.00088	33.52%
Se 196.026†	1.1	0.0007	mg/L	0.00301	0.0007	mg/L	0.00301	425.92%
Zn 206.200†	2187.9	0.0200	mg/L	0.00016	0.0200	mg/L	0.00016	0.80%

Sb 206.836†	-0.6	-0.0001 mg/L	0.00107	-0.0001 mg/L	0.00107	749.17%
Pb 220.353†	2.7	0.0012 mg/L	0.00185	0.0012 mg/L	0.00185	149.44%
Cd 226.502†	32.7	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	88.36%
Co 228.616†	48.3	0.0012 mg/L	0.00019	0.0012 mg/L	0.00019	16.09%
Ni 232.003†	36.3	0.0017 mg/L	0.00098	0.0017 mg/L	0.00098	58.09%
Ba 233.527†	11183.5	0.0662 mg/L	0.00042	0.0662 mg/L	0.00042	0.63%
Mn 257.610†	211751.2	0.2254 mg/L	0.00064	0.2254 mg/L	0.00064	0.29%
Cr 267.716†	110.5	0.0007 mg/L	0.00028	0.0007 mg/L	0.00028	39.88%
Fe 273.955†	7140.6	0.2824 mg/L	0.00125	0.2824 mg/L	0.00125	0.44%
Mg 279.077†	425194.9	18.70 mg/L	0.032	18.70 mg/L	0.032	0.17%
V 292.402†	2421.1	0.0063 mg/L	0.00030	0.0063 mg/L	0.00030	4.70%
Al 308.215†	13400.0	0.3412 mg/L	0.00550	0.3412 mg/L	0.00550	1.61%
Be 313.107†	-780.3	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	16.29%
Cu 324.752†	6315.9	0.0135 mg/L	0.00009	0.0135 mg/L	0.00009	0.66%
Ag 338.289†	193.0	-0.0001 mg/L	0.00027	-0.0001 mg/L	0.00027	312.37%
Na 330.237†	266044.8	180.8 mg/L	0.11	180.8 mg/L	0.11	0.06%
Ca 227.546†	45487.9	82.88 mg/L	0.205	82.88 mg/L	0.205	0.25%
Al RADIAL†	1144.1	0.3363 mg/L	0.00356	0.3363 mg/L	0.00356	1.06%
Fe RADIAL†	39.6	0.2713 mg/L	0.00906	0.2713 mg/L	0.00906	3.34%
Ca RADIAL†	301141.0	86.17 mg/L	0.040	86.17 mg/L	0.040	0.05%
K RADIAL†	17340.4	8.467 mg/L	0.0334	8.467 mg/L	0.0334	0.39%
Mg RADIAL†	2708.9	18.26 mg/L	0.133	18.26 mg/L	0.133	0.73%
Na RADIAL†	3578647.5	137.5 mg/L	1.35	137.5 mg/L	1.35	0.99%

Sequence No.: 68
Sample ID: BJ20718-BLK1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 10/15/2012 11:39:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20718-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	18388263.3	5.035	mg/L	0.0068				0.14%
Y RADIAL	334970.5	4.967	mg/L	0.0890				1.79%
As 188.979†	4.0	0.0010	mg/L	0.00173	0.0010	mg/L	0.00173	172.24%
Tl 190.801†	1.0	0.0002	mg/L	0.00074	0.0002	mg/L	0.00074	309.53%
Se 196.026†	-6.6	-0.0031	mg/L	0.00194	-0.0031	mg/L	0.00194	61.95%
Zn 206.200†	-41.4	-0.0004	mg/L	0.00007	-0.0004	mg/L	0.00007	17.74%
Sb 206.836†	-2.0	-0.0004	mg/L	0.00342	-0.0004	mg/L	0.00342	792.30%
Pb 220.353†	6.5	0.0006	mg/L	0.00181	0.0006	mg/L	0.00181	282.64%
Cd 226.502†	1.7	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	>999.9%
Co 228.616†	8.9	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.73%
Ni 232.003†	-14.4	-0.0006	mg/L	0.00043	-0.0006	mg/L	0.00043	66.50%
Ba 233.527†	10.5	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	146.58%
Mn 257.610†	169.1	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	44.56%
Cr 267.716†	-12.0	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.00010	133.30%
Fe 273.955†	29.3	0.0012	mg/L	0.00119	0.0012	mg/L	0.00119	102.85%
Mg 279.077†	74.3	0.0033	mg/L	0.00246	0.0033	mg/L	0.00246	75.37%
V 292.402†	6.6	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	534.22%
Al 308.215†	-65.2	-0.0017	mg/L	0.00305	-0.0017	mg/L	0.00305	182.64%
Be 313.107†	188.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	18.95%
Cu 324.752†	-134.0	-0.0003	mg/L	0.00014	-0.0003	mg/L	0.00014	43.91%
Ag 338.289†	76.8	0.0003	mg/L	0.00052	0.0003	mg/L	0.00052	167.05%
Na 330.237†	35.2	0.0239	mg/L	0.04767	0.0239	mg/L	0.04767	199.34%
Ca 227.546†	6.2	0.0113	mg/L	0.04309	0.0113	mg/L	0.04309	380.18%
Al RADIAL†	1.6	0.0005	mg/L	0.00391	0.0005	mg/L	0.00391	822.79%
Fe RADIAL†	0.2	0.0011	mg/L	0.01829	0.0011	mg/L	0.01829	>999.9%
Ca RADIAL†	60.8	0.0174	mg/L	0.00405	0.0174	mg/L	0.00405	23.29%
K RADIAL†	51.8	0.0253	mg/L	0.00967	0.0253	mg/L	0.00967	38.26%
Mg RADIAL†	3.1	0.0211	mg/L	0.01751	0.0211	mg/L	0.01751	82.80%
Na RADIAL†	1731.2	0.0665	mg/L	0.04629	0.0665	mg/L	0.04629	69.62%

Sequence No.: 69
Sample ID: BJ20718-SRM1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 57
Date Collected: 10/15/2012 11:44:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20718-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17700041.7	4.847	mg/L	0.0461				0.95%
Y RADIAL	337892.7	5.010	mg/L	0.0777				1.55%
As 188.979†	6209.1	1.592	mg/L	0.0042	1.592	mg/L	0.0042	0.26%
Tl 190.801†	8169.5	2.000	mg/L	0.0152	2.000	mg/L	0.0152	0.76%
Se 196.026†	2434.3	1.234	mg/L	0.0031	1.234	mg/L	0.0031	0.25%
Zn 206.200†	269508.6	2.454	mg/L	0.0244	2.454	mg/L	0.0244	0.99%
Sb 206.836†	4457.9	0.9627	mg/L	0.00963	0.9627	mg/L	0.00963	1.00%
Pb 220.353†	7402.3	0.7163	mg/L	0.00471	0.7163	mg/L	0.00471	0.66%
Cd 226.502†	199721.1	0.9184	mg/L	0.00884	0.9184	mg/L	0.00884	0.96%
Co 228.616†	51434.1	1.261	mg/L	0.0066	1.261	mg/L	0.0066	0.52%
Ni 232.003†	16229.6	0.7466	mg/L	0.00524	0.7466	mg/L	0.00524	0.70%
Ba 233.527†	324385.8	1.920	mg/L	0.0167	1.920	mg/L	0.0167	0.87%
Mn 257.610†	2978345.2	3.181	mg/L	0.0230	3.181	mg/L	0.0230	0.72%
Cr 267.716†	163721.7	1.046	mg/L	0.0103	1.046	mg/L	0.0103	0.98%
Fe 273.955†	2672967.9	105.7	mg/L	0.55	105.7	mg/L	0.55	0.52%
Mg 279.077†	532428.7	23.42	mg/L	0.191	23.42	mg/L	0.191	0.81%
V 292.402†	299304.3	0.7710	mg/L	0.00861	0.7710	mg/L	0.00861	1.12%
Al 308.215†	2538608.6	64.90	mg/L	0.268	64.90	mg/L	0.268	0.41%
Be 313.107†	5269738.5	1.025	mg/L	0.0044	1.025	mg/L	0.0044	0.43%
Cu 324.752†	458129.6	1.120	mg/L	0.0078	1.120	mg/L	0.0078	0.69%
Ag 338.289†	96750.8	0.3931	mg/L	0.00370	0.3931	mg/L	0.00370	0.94%
Na 330.237†	-693.3	0.1465	mg/L	0.06260	0.1465	mg/L	0.06260	42.72%
Ca 227.546†	31462.9	57.86	mg/L	0.098	57.86	mg/L	0.098	0.17%
Al RADIAL†	216267.0	63.58	mg/L	0.648	63.58	mg/L	0.648	1.02%
Fe RADIAL†	16065.7	109.9	mg/L	1.73	109.9	mg/L	1.73	1.57%
Ca RADIAL†	219988.2	62.95	mg/L	0.261	62.95	mg/L	0.261	0.42%
K RADIAL†	53797.0	26.27	mg/L	0.362	26.27	mg/L	0.362	1.38%
Mg RADIAL†	3493.3	23.54	mg/L	0.418	23.54	mg/L	0.418	1.77%
Na RADIAL†	123287.3	4.735	mg/L	0.0130	4.735	mg/L	0.0130	0.27%

Sequence No.: 70
Sample ID: 12J0475-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 10/15/2012 11:53:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18520177.8	5.071	mg/L	0.0252				0.50%
Y RADIAL	353291.2	5.238	mg/L	0.0369				0.71%
As 188.979†	35.1	0.0116	mg/L	0.00038	0.0116	mg/L	0.00038	3.29%
Tl 190.801†	-20.1	-0.0034	mg/L	0.00105	-0.0034	mg/L	0.00105	30.55%
Se 196.026†	-3.0	0.0113	mg/L	0.00316	0.0113	mg/L	0.00316	28.03%
Zn 206.200†	381774.8	3.485	mg/L	0.0320	3.485	mg/L	0.0320	0.92%
Sb 206.836†	73.3	0.0158	mg/L	0.00220	0.0158	mg/L	0.00220	13.92%
Pb 220.353†	1100.4	0.1057	mg/L	0.00110	0.1057	mg/L	0.00110	1.04%
Cd 226.502†	911.1	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.75%
Co 228.616†	255.7	0.0063	mg/L	0.00012	0.0063	mg/L	0.00012	1.92%
Ni 232.003†	2255.6	0.1043	mg/L	0.00067	0.1043	mg/L	0.00067	0.64%
Ba 233.527†	382780.5	2.266	mg/L	0.0175	2.266	mg/L	0.0175	0.77%
Mn 257.610†	38720.0	0.0422	mg/L	0.00040	0.0422	mg/L	0.00040	0.95%
Cr 267.716†	18059.7	0.1153	mg/L	0.00154	0.1153	mg/L	0.00154	1.34%
Fe 273.955†	457624.4	18.10	mg/L	0.142	18.10	mg/L	0.142	0.79%
Mg 279.077†	31555.0	1.389	mg/L	0.0107	1.389	mg/L	0.0107	0.77%
V 292.402†	7732.3	0.0187	mg/L	0.00027	0.0187	mg/L	0.00027	1.47%
Al 308.215†	161593.7	4.132	mg/L	0.0189	4.132	mg/L	0.0189	0.46%
Be 313.107†	9572.5	0.0019	mg/L	0.00004	0.0019	mg/L	0.00004	2.10%
Cu 324.752†	1294185.9	3.157	mg/L	0.0293	3.157	mg/L	0.0293	0.93%
Ag 338.289†	522480.0	2.126	mg/L	0.0263	2.126	mg/L	0.0263	1.24%
Na 330.237†	-3581.2	-2.325	mg/L	0.1065	-2.325	mg/L	0.1065	4.58%
Ca 227.546†	5865.1	10.77	mg/L	0.024	10.77	mg/L	0.024	0.23%
Al RADIAL†	14296.8	4.203	mg/L	0.0101	4.203	mg/L	0.0101	0.24%
Fe RADIAL†	2663.9	18.23	mg/L	0.171	18.23	mg/L	0.171	0.94%
Ca RADIAL†	41370.8	11.84	mg/L	0.015	11.84	mg/L	0.015	0.13%
K RADIAL†	1617.5	0.7898	mg/L	0.00601	0.7898	mg/L	0.00601	0.76%

Mg RADIAL†	201.1	1.355 mg/L	0.0013	1.355 mg/L	0.0013	0.10%
Na RADIAL†	45781.0	1.758 mg/L	0.0096	1.758 mg/L	0.0096	0.54%

Sequence No.: 71
Sample ID: CCV-6
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/15/2012 11:58:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17760487.9	4.863	mg/L	0.0209				0.43%
Y RADIAL	322011.4	4.774	mg/L	0.0207				0.43%
As 188.979†	920.6	0.2344	mg/L	0.00247	0.2344	mg/L	0.00247	1.05%
Tl 190.801†	982.9	0.2401	mg/L	0.00155	0.2401	mg/L	0.00155	0.64%
Se 196.026†	493.1	0.2383	mg/L	0.00340	0.2383	mg/L	0.00340	1.43%
Zn 206.200†	271242.4	2.476	mg/L	0.0196	2.476	mg/L	0.0196	0.79%
Sb 206.836†	1125.9	0.2432	mg/L	0.00487	0.2432	mg/L	0.00487	2.00%
Pb 220.353†	2538.4	0.2486	mg/L	0.00213	0.2486	mg/L	0.00213	0.86%
Cd 226.502†	25906.6	0.1208	mg/L	0.00114	0.1208	mg/L	0.00114	0.94%
Co 228.616†	101323.5	2.485	mg/L	0.0185	2.485	mg/L	0.0185	0.75%
Ni 232.003†	54327.9	2.442	mg/L	0.0188	2.442	mg/L	0.0188	0.77%
Ba 233.527†	1693227.4	10.02	mg/L	0.039	10.02	mg/L	0.039	0.39%
Mn 257.610†	2317064.5	2.470	mg/L	0.0089	2.470	mg/L	0.0089	0.36%
Cr 267.716†	153725.4	0.9817	mg/L	0.00484	0.9817	mg/L	0.00484	0.49%
Fe 273.955†	125050.0	4.946	mg/L	0.0282	4.946	mg/L	0.0282	0.57%
Mg 279.077†	552252.8	24.29	mg/L	0.039	24.29	mg/L	0.039	0.16%
V 292.402†	925938.5	2.411	mg/L	0.0090	2.411	mg/L	0.0090	0.37%
Al 308.215†	371175.3	9.487	mg/L	0.0405	9.487	mg/L	0.0405	0.43%
Be 313.107†	1243521.4	0.2418	mg/L	0.00322	0.2418	mg/L	0.00322	1.33%
Cu 324.752†	489757.8	1.194	mg/L	0.0070	1.194	mg/L	0.0070	0.58%
Ag 338.289†	298839.0	1.216	mg/L	0.0071	1.216	mg/L	0.0071	0.59%
Na 330.237†	33020.5	22.49	mg/L	0.129	22.49	mg/L	0.129	0.57%
Ca 227.546†	13106.0	23.91	mg/L	0.084	23.91	mg/L	0.084	0.35%
Al RADIAL†	33621.9	9.884	mg/L	0.1290	9.884	mg/L	0.1290	1.31%
Fe RADIAL†	725.7	4.966	mg/L	0.0266	4.966	mg/L	0.0266	0.54%
Ca RADIAL†	88186.5	25.23	mg/L	0.389	25.23	mg/L	0.389	1.54%
K RADIAL†	10036.8	4.901	mg/L	0.0677	4.901	mg/L	0.0677	1.38%
Mg RADIAL†	3704.5	24.97	mg/L	0.187	24.97	mg/L	0.187	0.75%
Na RADIAL†	639310.7	24.56	mg/L	0.078	24.56	mg/L	0.078	0.32%

Sequence No.: 72
Sample ID: CCB-6
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/16/2012 12:07:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18438289.1	5.049	mg/L	0.0134				0.27%
Y RADIAL	337053.1	4.997	mg/L	0.0738				1.48%
As 188.979†	5.9	0.0015	mg/L	0.00189	0.0015	mg/L	0.00189	125.51%
Tl 190.801†	3.7	0.0009	mg/L	0.00072	0.0009	mg/L	0.00072	78.73%
Se 196.026†	-1.8	-0.0008	mg/L	0.00049	-0.0008	mg/L	0.00049	57.79%
Zn 206.200†	86.2	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	9.53%
Sb 206.836†	-0.8	-0.0002	mg/L	0.00056	-0.0002	mg/L	0.00056	333.11%
Pb 220.353†	0.9	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	284.32%
Cd 226.502†	23.5	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	73.99%
Co 228.616†	46.6	0.0011	mg/L	0.00040	0.0011	mg/L	0.00040	34.98%
Ni 232.003†	28.3	0.0013	mg/L	0.00028	0.0013	mg/L	0.00028	21.84%
Ba 233.527†	800.9	0.0047	mg/L	0.00011	0.0047	mg/L	0.00011	2.35%
Mn 257.610†	1054.7	0.0011	mg/L	0.00002	0.0011	mg/L	0.00002	1.54%
Cr 267.716†	55.0	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.91%
Fe 273.955†	72.0	0.0028	mg/L	0.00055	0.0028	mg/L	0.00055	19.37%
Mg 279.077†	251.5	0.0111	mg/L	0.00043	0.0111	mg/L	0.00043	3.93%
V 292.402†	413.6	0.0011	mg/L	0.00015	0.0011	mg/L	0.00015	14.32%

Al 308.215†	184.2	0.0047	mg/L	0.00110	0.0047	mg/L	0.00110	23.45%
Be 313.107†	632.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.64%
Cu 324.752†	171.8	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023	54.14%
Ag 338.289†	1414.4	0.0058	mg/L	0.00099	0.0058	mg/L	0.00099	17.25%
Na 330.237†	54.9	0.0373	mg/L	0.03115	0.0373	mg/L	0.03115	83.48%
Ca 227.546†	12.6	0.0229	mg/L	0.05353	0.0229	mg/L	0.05353	233.90%
Al RADIAL†	17.9	0.0053	mg/L	0.00330	0.0053	mg/L	0.00330	62.91%
Fe RADIAL†	0.1	0.0008	mg/L	0.00190	0.0008	mg/L	0.00190	225.96%
Ca RADIAL†	74.4	0.0213	mg/L	0.00291	0.0213	mg/L	0.00291	13.66%
K RADIAL†	40.5	0.0198	mg/L	0.00845	0.0198	mg/L	0.00845	42.77%
Mg RADIAL†	0.7	0.0047	mg/L	0.02373	0.0047	mg/L	0.02373	510.27%
Na RADIAL†	707.8	0.0272	mg/L	0.03687	0.0272	mg/L	0.03687	135.62%

Sequence No.: 73
Sample ID: 12J0475-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 10/16/2012 12:12:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17980662.1	4.923	mg/L	0.0265				0.54%
Y RADIAL	342567.7	5.079	mg/L	0.0601				1.18%
As 188.979†	40.1	0.0178	mg/L	0.00170	0.0178	mg/L	0.00170	9.56%
Tl 190.801†	-181.9	-0.0397	mg/L	0.00378	-0.0397	mg/L	0.00378	9.52%
Se 196.026†	-53.9	0.0105	mg/L	0.00288	0.0105	mg/L	0.00288	27.47%
Zn 206.200†	20916.2	0.1875	mg/L	0.00219	0.1875	mg/L	0.00219	1.17%
Sb 206.836†	-32.3	-0.0077	mg/L	0.00027	-0.0077	mg/L	0.00027	3.54%
Pb 220.353†	597.1	0.0563	mg/L	0.00084	0.0563	mg/L	0.00084	1.49%
Cd 226.502†	1293.4	-0.0036	mg/L	0.00005	-0.0036	mg/L	0.00005	1.51%
Co 228.616†	960.4	0.0236	mg/L	0.00065	0.0236	mg/L	0.00065	2.76%
Ni 232.003†	1441.1	0.0732	mg/L	0.00071	0.0732	mg/L	0.00071	0.97%
Ba 233.527†	441184.2	2.611	mg/L	0.0255	2.611	mg/L	0.0255	0.98%
Mn 257.610†	231284.1	0.2491	mg/L	0.00226	0.2491	mg/L	0.00226	0.91%
Cr 267.716†	50068.5	0.3197	mg/L	0.00323	0.3197	mg/L	0.00323	1.01%
Fe 273.955†	1301697.5	51.48	mg/L	0.351	51.48	mg/L	0.351	0.68%
Mg 279.077†	346435.4	15.24	mg/L	0.171	15.24	mg/L	0.171	1.12%
V 292.402†	48666.0	0.1226	mg/L	0.00129	0.1226	mg/L	0.00129	1.05%
Al 308.215†	1922093.3	49.14	mg/L	0.284	49.14	mg/L	0.284	0.58%
Be 313.107†	4079.6	0.0008	mg/L	0.00029	0.0008	mg/L	0.00029	36.18%
Cu 324.752†	113609.5	0.2788	mg/L	0.00281	0.2788	mg/L	0.00281	1.01%
Ag 338.289†	72757.9	0.2960	mg/L	0.00304	0.2960	mg/L	0.00304	1.03%
Na 330.237†	-2712.6	-1.586	mg/L	0.0465	-1.586	mg/L	0.0465	2.93%
Ca 227.546†	291.6	0.8007	mg/L	0.03747	0.8007	mg/L	0.03747	4.68%
Al RADIAL†	166293.7	48.89	mg/L	0.220	48.89	mg/L	0.220	0.45%
Fe RADIAL†	7592.1	51.95	mg/L	0.608	51.95	mg/L	0.608	1.17%
Ca RADIAL†	11013.2	3.151	mg/L	0.0462	3.151	mg/L	0.0462	1.47%
K RADIAL†	7018.6	3.427	mg/L	0.0456	3.427	mg/L	0.0456	1.33%
Mg RADIAL†	2131.7	14.37	mg/L	0.165	14.37	mg/L	0.165	1.15%
Na RADIAL†	29210.0	1.122	mg/L	0.0232	1.122	mg/L	0.0232	2.07%

Sequence No.: 74
Sample ID: 12J0475-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 10/16/2012 12:17:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18106047.1	4.958	mg/L	0.0430				0.87%
Y RADIAL	342140.2	5.073	mg/L	0.0043				0.08%
As 188.979†	28.0	0.0097	mg/L	0.00208	0.0097	mg/L	0.00208	21.48%
Tl 190.801†	-87.0	-0.0196	mg/L	0.00086	-0.0196	mg/L	0.00086	4.37%
Se 196.026†	-10.0	0.0076	mg/L	0.00291	0.0076	mg/L	0.00291	38.28%
Zn 206.200†	12635.0	0.1142	mg/L	0.00116	0.1142	mg/L	0.00116	1.02%
Sb 206.836†	-24.7	-0.0056	mg/L	0.00132	-0.0056	mg/L	0.00132	23.73%

Pb 220.353†	342.0	0.0334	mg/L	0.00076	0.0334	mg/L	0.00076	2.26%
Cd 226.502†	489.8	-0.0010	mg/L	0.00015	-0.0010	mg/L	0.00015	15.15%
Co 228.616†	363.4	0.0089	mg/L	0.00028	0.0089	mg/L	0.00028	3.19%
Ni 232.003†	340.6	0.0182	mg/L	0.00041	0.0182	mg/L	0.00041	2.27%
Ba 233.527†	554879.5	3.284	mg/L	0.0421	3.284	mg/L	0.0421	1.28%
Mn 257.610†	109631.3	0.1178	mg/L	0.00174	0.1178	mg/L	0.00174	1.47%
Cr 267.716†	17361.5	0.1109	mg/L	0.00192	0.1109	mg/L	0.00192	1.73%
Fe 273.955†	444283.3	17.57	mg/L	0.264	17.57	mg/L	0.264	1.50%
Mg 279.077†	48897.4	2.150	mg/L	0.0284	2.150	mg/L	0.0284	1.32%
V 292.402†	17238.6	0.0435	mg/L	0.00060	0.0435	mg/L	0.00060	1.38%
Al 308.215†	588469.5	15.04	mg/L	0.260	15.04	mg/L	0.260	1.73%
Be 313.107†	1158.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	29.97%
Cu 324.752†	59344.9	0.1439	mg/L	0.00264	0.1439	mg/L	0.00264	1.83%
Ag 338.289†	54963.4	0.2229	mg/L	0.00333	0.2229	mg/L	0.00333	1.50%
Na 330.237†	-1915.4	-1.089	mg/L	0.0175	-1.089	mg/L	0.0175	1.61%
Ca 227.546†	41049.4	74.88	mg/L	1.264	74.88	mg/L	1.264	1.69%
Al RADIAL†	50538.8	14.86	mg/L	0.060	14.86	mg/L	0.060	0.40%
Fe RADIAL†	2603.2	17.81	mg/L	0.034	17.81	mg/L	0.034	0.19%
Ca RADIAL†	279695.4	80.03	mg/L	0.033	80.03	mg/L	0.033	0.04%
K RADIAL†	3247.6	1.586	mg/L	0.0162	1.586	mg/L	0.0162	1.02%
Mg RADIAL†	316.2	2.131	mg/L	0.0052	2.131	mg/L	0.0052	0.24%
Na RADIAL†	27836.2	1.069	mg/L	0.0169	1.069	mg/L	0.0169	1.58%

Sequence No.: 75
Sample ID: 12J0475-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 10/16/2012 12:23:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18624012.5	5.100	mg/L	0.0507				0.99%
Y RADIAL	348185.0	5.163	mg/L	0.0343				0.66%
As 188.979†	8.9	0.0052	mg/L	0.00144	0.0052	mg/L	0.00144	27.55%
Tl 190.801†	-10.9	-0.0010	mg/L	0.00076	-0.0010	mg/L	0.00076	76.32%
Se 196.026†	-14.6	0.0072	mg/L	0.00207	0.0072	mg/L	0.00207	28.67%
Zn 206.200†	173675.8	1.585	mg/L	0.0304	1.585	mg/L	0.0304	1.92%
Sb 206.836†	-1.2	-0.0003	mg/L	0.00130	-0.0003	mg/L	0.00130	407.69%
Pb 220.353†	610.4	0.0576	mg/L	0.00142	0.0576	mg/L	0.00142	2.47%
Cd 226.502†	799.0	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008	156.57%
Co 228.616†	113.6	0.0028	mg/L	0.00041	0.0028	mg/L	0.00041	14.79%
Ni 232.003†	1032.1	0.0497	mg/L	0.00128	0.0497	mg/L	0.00128	2.58%
Ba 233.527†	17534.3	0.1038	mg/L	0.00156	0.1038	mg/L	0.00156	1.51%
Mn 257.610†	106097.5	0.1142	mg/L	0.00171	0.1142	mg/L	0.00171	1.50%
Cr 267.716†	10672.5	0.0682	mg/L	0.00098	0.0682	mg/L	0.00098	1.44%
Fe 273.955†	510344.8	20.18	mg/L	0.354	20.18	mg/L	0.354	1.75%
Mg 279.077†	20936.7	0.9216	mg/L	0.01148	0.9216	mg/L	0.01148	1.25%
V 292.402†	4688.8	0.0106	mg/L	0.00013	0.0106	mg/L	0.00013	1.23%
Al 308.215†	181488.6	4.641	mg/L	0.0873	4.641	mg/L	0.0873	1.88%
Be 313.107†	2157.4	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	10.18%
Cu 324.752†	1239778.5	3.024	mg/L	0.0404	3.024	mg/L	0.0404	1.33%
Ag 338.289†	179149.5	0.7288	mg/L	0.00881	0.7288	mg/L	0.00881	1.21%
Na 330.237†	-872.9	-0.4735	mg/L	0.04824	-0.4735	mg/L	0.04824	10.19%
Ca 227.546†	6682.7	12.27	mg/L	0.111	12.27	mg/L	0.111	0.91%
Al RADIAL†	16167.5	4.753	mg/L	0.0083	4.753	mg/L	0.0083	0.17%
Fe RADIAL†	3013.9	20.62	mg/L	0.240	20.62	mg/L	0.240	1.16%
Ca RADIAL†	47051.5	13.46	mg/L	0.102	13.46	mg/L	0.102	0.76%
K RADIAL†	1452.5	0.7092	mg/L	0.02017	0.7092	mg/L	0.02017	2.84%
Mg RADIAL†	136.8	0.9217	mg/L	0.01060	0.9217	mg/L	0.01060	1.15%
Na RADIAL†	38028.8	1.461	mg/L	0.0237	1.461	mg/L	0.0237	1.62%

Sequence No.: 76
Sample ID: 12J0475-05
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 10/16/2012 12:28:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	18541684.6	5.077	mg/L	0.0222				0.44%
Y RADIAL	347240.6	5.149	mg/L	0.0326				0.63%
As 188.979†	26.0	0.0091	mg/L	0.00099	0.0091	mg/L	0.00099	10.81%
Tl 190.801†	-35.6	-0.0072	mg/L	0.00185	-0.0072	mg/L	0.00185	25.73%
Se 196.026†	-16.4	0.0043	mg/L	0.00094	0.0043	mg/L	0.00094	22.13%
Zn 206.200†	3679.9	0.0326	mg/L	0.00009	0.0326	mg/L	0.00009	0.29%
Sb 206.836†	-14.5	-0.0033	mg/L	0.00155	-0.0033	mg/L	0.00155	46.94%
Pb 220.353†	146.3	0.0130	mg/L	0.00079	0.0130	mg/L	0.00079	6.03%
Cd 226.502†	445.8	-0.0012	mg/L	0.00004	-0.0012	mg/L	0.00004	3.80%
Co 228.616†	262.9	0.0064	mg/L	0.00010	0.0064	mg/L	0.00010	1.59%
Ni 232.003†	272.9	0.0151	mg/L	0.00028	0.0151	mg/L	0.00028	1.83%
Ba 233.527†	45891.4	0.2716	mg/L	0.00174	0.2716	mg/L	0.00174	0.64%
Mn 257.610†	231530.0	0.2478	mg/L	0.00175	0.2478	mg/L	0.00175	0.71%
Cr 267.716†	4448.8	0.0284	mg/L	0.00015	0.0284	mg/L	0.00015	0.51%
Fe 273.955†	435137.1	17.21	mg/L	0.146	17.21	mg/L	0.146	0.85%
Mg 279.077†	30508.9	1.343	mg/L	0.0087	1.343	mg/L	0.0087	0.65%
V 292.402†	15222.9	0.0383	mg/L	0.00043	0.0383	mg/L	0.00043	1.12%
Al 308.215†	408062.9	10.43	mg/L	0.109	10.43	mg/L	0.109	1.04%
Be 313.107†	2744.2	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	10.26%
Cu 324.752†	8033.8	0.0203	mg/L	0.00032	0.0203	mg/L	0.00032	1.56%
Ag 338.289†	1628.4	0.0066	mg/L	0.00027	0.0066	mg/L	0.00027	4.06%
Na 330.237†	223.6	0.2365	mg/L	0.05249	0.2365	mg/L	0.05249	22.20%
Ca 227.546†	17.2	0.1179	mg/L	0.05420	0.1179	mg/L	0.05420	45.96%
Al RADIAL†	35763.4	10.51	mg/L	0.034	10.51	mg/L	0.034	0.33%
Fe RADIAL†	2502.0	17.12	mg/L	0.130	17.12	mg/L	0.130	0.76%
Ca RADIAL†	3089.3	0.8840	mg/L	0.01490	0.8840	mg/L	0.01490	1.69%
K RADIAL†	2489.0	1.215	mg/L	0.0175	1.215	mg/L	0.0175	1.44%
Mg RADIAL†	195.8	1.319	mg/L	0.0151	1.319	mg/L	0.0151	1.14%
Na RADIAL†	29990.7	1.152	mg/L	0.0100	1.152	mg/L	0.0100	0.87%

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Sequence No.: 77
Sample ID: BJ20718-DUP1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 10/16/2012 12:33:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20718-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	18599031.2	5.093	mg/L	0.0494				0.97%
Y RADIAL	343456.6	5.092	mg/L	0.0142				0.28%
As 188.979†	16.7	0.0068	mg/L	0.00251	0.0068	mg/L	0.00251	37.12%
Tl 190.801†	-39.5	-0.0082	mg/L	0.00293	-0.0082	mg/L	0.00293	35.97%
Se 196.026†	-11.9	0.0063	mg/L	0.00115	0.0063	mg/L	0.00115	18.13%
Zn 206.200†	3590.9	0.0318	mg/L	0.00028	0.0318	mg/L	0.00028	0.88%
Sb 206.836†	-16.6	-0.0037	mg/L	0.00053	-0.0037	mg/L	0.00053	14.18%
Pb 220.353†	137.8	0.0122	mg/L	0.00253	0.0122	mg/L	0.00253	20.73%
Cd 226.502†	443.8	-0.0011	mg/L	0.00019	-0.0011	mg/L	0.00019	16.79%
Co 228.616†	256.7	0.0063	mg/L	0.00009	0.0063	mg/L	0.00009	1.48%
Ni 232.003†	256.7	0.0143	mg/L	0.00110	0.0143	mg/L	0.00110	7.66%
Ba 233.527†	45613.9	0.2700	mg/L	0.00235	0.2700	mg/L	0.00235	0.87%
Mn 257.610†	230106.9	0.2462	mg/L	0.00306	0.2462	mg/L	0.00306	1.24%
Cr 267.716†	4404.1	0.0281	mg/L	0.00043	0.0281	mg/L	0.00043	1.52%
Fe 273.955†	431816.3	17.08	mg/L	0.248	17.08	mg/L	0.248	1.45%
Mg 279.077†	30217.8	1.330	mg/L	0.0188	1.330	mg/L	0.0188	1.41%
V 292.402†	15103.3	0.0380	mg/L	0.00066	0.0380	mg/L	0.00066	1.73%
Al 308.215†	406832.5	10.40	mg/L	0.164	10.40	mg/L	0.164	1.58%
Be 313.107†	2959.7	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	15.33%
Cu 324.752†	7760.6	0.0196	mg/L	0.00043	0.0196	mg/L	0.00043	2.22%
Ag 338.289†	1599.3	0.0065	mg/L	0.00061	0.0065	mg/L	0.00061	9.40%
Na 330.237†	101.6	0.1529	mg/L	0.04136	0.1529	mg/L	0.04136	27.04%
Ca 227.546†	6.3	0.0973	mg/L	0.02022	0.0973	mg/L	0.02022	20.77%
Al RADIAL†	35870.6	10.54	mg/L	0.047	10.54	mg/L	0.047	0.45%
Fe RADIAL†	2507.2	17.15	mg/L	0.087	17.15	mg/L	0.087	0.50%
Ca RADIAL†	3136.7	0.8975	mg/L	0.01016	0.8975	mg/L	0.01016	1.13%
K RADIAL†	2491.5	1.217	mg/L	0.0239	1.217	mg/L	0.0239	1.96%
Mg RADIAL†	194.7	1.312	mg/L	0.0220	1.312	mg/L	0.0220	1.68%

Na RADIAL†	27247.5	1.047 mg/L	0.0164	1.047 mg/L	0.0164	1.57%

Sequence No.: 78
Sample ID: BJ20718-MS1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 10/16/2012 12:38:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20718-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18203093.8	4.984	mg/L	0.0317				0.64%
Y RADIAL	340398.3	5.047	mg/L	0.0636				1.26%
As 188.979†	7900.3	2.008	mg/L	0.0082	2.008	mg/L	0.0082	0.41%
Tl 190.801†	9087.6	2.217	mg/L	0.0138	2.217	mg/L	0.0138	0.62%
Se 196.026†	4220.3	2.023	mg/L	0.0102	2.023	mg/L	0.0102	0.50%
Zn 206.200†	62286.4	0.5676	mg/L	0.00093	0.5676	mg/L	0.00093	0.16%
Sb 206.836†	1270.9	0.2745	mg/L	0.00066	0.2745	mg/L	0.00066	0.24%
Pb 220.353†	5504.7	0.5367	mg/L	0.00531	0.5367	mg/L	0.00531	0.99%
Cd 226.502†	11486.5	0.0506	mg/L	0.00029	0.0506	mg/L	0.00029	0.58%
Co 228.616†	22314.3	0.5473	mg/L	0.00199	0.5473	mg/L	0.00199	0.36%
Ni 232.003†	12047.7	0.5443	mg/L	0.00302	0.5443	mg/L	0.00302	0.56%
Ba 233.527†	414923.1	2.456	mg/L	0.0027	2.456	mg/L	0.0027	0.11%
Mn 257.610†	732506.5	0.7820	mg/L	0.00013	0.7820	mg/L	0.00013	0.02%
Cr 267.716†	35893.5	0.2292	mg/L	0.00025	0.2292	mg/L	0.00025	0.11%
Fe 273.955†	456927.0	18.07	mg/L	0.030	18.07	mg/L	0.030	0.17%
Mg 279.077†	31570.8	1.389	mg/L	0.0041	1.389	mg/L	0.0041	0.30%
V 292.402†	209128.1	0.5432	mg/L	0.00300	0.5432	mg/L	0.00300	0.55%
Al 308.215†	485834.8	12.42	mg/L	0.036	12.42	mg/L	0.036	0.29%
Be 313.107†	272410.0	0.0530	mg/L	0.00066	0.0530	mg/L	0.00066	1.24%
Cu 324.752†	114561.1	0.2801	mg/L	0.00072	0.2801	mg/L	0.00072	0.26%
Ag 338.289†	14218.7	0.0579	mg/L	0.00016	0.0579	mg/L	0.00016	0.28%
Na 330.237†	-462.3	-0.2247	mg/L	0.00998	-0.2247	mg/L	0.00998	4.44%
Ca 227.546†	71.6	0.2221	mg/L	0.03816	0.2221	mg/L	0.03816	17.18%
Al RADIAL†	42835.7	12.59	mg/L	0.064	12.59	mg/L	0.064	0.51%
Fe RADIAL†	2629.2	17.99	mg/L	0.271	17.99	mg/L	0.271	1.51%
Ca RADIAL†	3121.4	0.8932	mg/L	0.00513	0.8932	mg/L	0.00513	0.57%
K RADIAL†	2507.4	1.224	mg/L	0.0032	1.224	mg/L	0.0032	0.26%
Mg RADIAL†	194.9	1.314	mg/L	0.0334	1.314	mg/L	0.0334	2.55%
Na RADIAL†	26217.0	1.007	mg/L	0.0234	1.007	mg/L	0.0234	2.33%

Sequence No.: 79
Sample ID: 12J0475-06
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 10/16/2012 12:47:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0475-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18273139.7	5.003	mg/L	0.0439				0.88%
Y RADIAL	344011.8	5.101	mg/L	0.0495				0.97%
As 188.979†	38.9	0.0171	mg/L	0.00104	0.0171	mg/L	0.00104	6.09%
Tl 190.801†	-113.2	-0.0232	mg/L	0.00079	-0.0232	mg/L	0.00079	3.43%
Se 196.026†	-41.9	0.0148	mg/L	0.00653	0.0148	mg/L	0.00653	44.09%
Zn 206.200†	39373.8	0.3563	mg/L	0.00315	0.3563	mg/L	0.00315	0.89%
Sb 206.836†	-20.9	-0.0051	mg/L	0.00209	-0.0051	mg/L	0.00209	40.60%
Pb 220.353†	468.6	0.0433	mg/L	0.00075	0.0433	mg/L	0.00075	1.74%
Cd 226.502†	1288.4	-0.0033	mg/L	0.00014	-0.0033	mg/L	0.00014	4.21%
Co 228.616†	2020.2	0.0495	mg/L	0.00023	0.0495	mg/L	0.00023	0.47%
Ni 232.003†	1163.5	0.0604	mg/L	0.00272	0.0604	mg/L	0.00272	4.51%
Ba 233.527†	1290479.1	7.638	mg/L	0.0602	7.638	mg/L	0.0602	0.79%
Mn 257.610†	654876.1	0.7008	mg/L	0.00431	0.7008	mg/L	0.00431	0.62%
Cr 267.716†	30771.3	0.1965	mg/L	0.00170	0.1965	mg/L	0.00170	0.86%
Fe 273.955†	1249897.0	49.43	mg/L	0.380	49.43	mg/L	0.380	0.77%
Mg 279.077†	111414.3	4.903	mg/L	0.0330	4.903	mg/L	0.0330	0.67%
V 292.402†	34314.0	0.0854	mg/L	0.00062	0.0854	mg/L	0.00062	0.72%
Al 308.215†	1648534.1	42.14	mg/L	0.479	42.14	mg/L	0.479	1.14%

Be 313.107†	5745.8	0.0011 mg/L	0.00011	0.0011 mg/L	0.00011	9.66%
Cu 324.752†	115858.7	0.2844 mg/L	0.00230	0.2844 mg/L	0.00230	0.81%
Ag 338.289†	138269.9	0.5626 mg/L	0.00444	0.5626 mg/L	0.00444	0.79%
Na 330.237†	492.5	0.5767 mg/L	0.03450	0.5767 mg/L	0.03450	5.98%
Ca 227.546†	-472.2	-0.6051 mg/L	0.01536	-0.6051 mg/L	0.01536	2.54%
Al RADIAL†	143038.6	42.05 mg/L	0.164	42.05 mg/L	0.164	0.39%
Fe RADIAL†	7399.4	50.63 mg/L	0.467	50.63 mg/L	0.467	0.92%
Ca RADIAL†	5372.0	1.537 mg/L	0.0210	1.537 mg/L	0.0210	1.37%
K RADIAL†	5647.9	2.758 mg/L	0.0398	2.758 mg/L	0.0398	1.44%
Mg RADIAL†	703.0	4.738 mg/L	0.0347	4.738 mg/L	0.0347	0.73%
Na RADIAL†	65847.4	2.529 mg/L	0.0356	2.529 mg/L	0.0356	1.41%

Sequence No.: 80
Sample ID: 12J0481-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 10/16/2012 12:52:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0481-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18012010.6	4.932	mg/L	0.0272				0.55%
Y RADIAL	340904.8	5.055	mg/L	0.0764				1.51%
As 188.979†	75.0	0.0319	mg/L	0.00129	0.0319	mg/L	0.00129	4.03%
Tl 190.801†	-143.2	-0.0275	mg/L	0.00232	-0.0275	mg/L	0.00232	8.42%
Se 196.026†	-90.8	0.0183	mg/L	0.00358	0.0183	mg/L	0.00358	19.59%
Zn 206.200†	141621.0	1.288	mg/L	0.0151	1.288	mg/L	0.0151	1.17%
Sb 206.836†	-18.3	-0.0045	mg/L	0.00193	-0.0045	mg/L	0.00193	42.77%
Pb 220.353†	7006.2	0.6769	mg/L	0.00724	0.6769	mg/L	0.00724	1.07%
Cd 226.502†	2981.3	-0.0025	mg/L	0.00003	-0.0025	mg/L	0.00003	1.25%
Co 228.616†	1615.6	0.0396	mg/L	0.00028	0.0396	mg/L	0.00028	0.70%
Ni 232.003†	2613.7	0.1317	mg/L	0.00153	0.1317	mg/L	0.00153	1.16%
Ba 233.527†	103587.3	0.6131	mg/L	0.01012	0.6131	mg/L	0.01012	1.65%
Mn 257.610†	4020956.4	4.292	mg/L	0.0125	4.292	mg/L	0.0125	0.29%
Cr 267.716†	25986.4	0.1659	mg/L	0.00205	0.1659	mg/L	0.00205	1.23%
Fe 273.955†	2212707.0	87.51	mg/L	0.354	87.51	mg/L	0.354	0.40%
Mg 279.077†	350250.5	15.41	mg/L	0.214	15.41	mg/L	0.214	1.39%
V 292.402†	66056.1	0.1650	mg/L	0.00225	0.1650	mg/L	0.00225	1.36%
Al 308.215†	1456686.6	37.24	mg/L	0.126	37.24	mg/L	0.126	0.34%
Be 313.107†	8410.5	0.0016	mg/L	0.00005	0.0016	mg/L	0.00005	3.28%
Cu 324.752†	160719.8	0.3953	mg/L	0.00879	0.3953	mg/L	0.00879	2.22%
Ag 338.289†	-4451.5	-0.0183	mg/L	0.00017	-0.0183	mg/L	0.00017	0.90%
Na 330.237†	-2818.0	-1.456	mg/L	0.0129	-1.456	mg/L	0.0129	0.88%
Ca 227.546†	8909.4	16.66	mg/L	0.165	16.66	mg/L	0.165	0.99%
Al RADIAL†	127718.8	37.55	mg/L	0.289	37.55	mg/L	0.289	0.77%
Fe RADIAL†	13203.6	90.34	mg/L	1.647	90.34	mg/L	1.647	1.82%
Ca RADIAL†	71920.9	20.58	mg/L	0.091	20.58	mg/L	0.091	0.44%
K RADIAL†	8130.4	3.970	mg/L	0.0889	3.970	mg/L	0.0889	2.24%
Mg RADIAL†	2196.3	14.80	mg/L	0.207	14.80	mg/L	0.207	1.40%
Na RADIAL†	42125.9	1.618	mg/L	0.0360	1.618	mg/L	0.0360	2.23%

Sequence No.: 81
Sample ID: 12J0481-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 10/16/2012 12:58:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0481-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18154372.1	4.971	mg/L	0.0369				0.74%
Y RADIAL	340755.3	5.052	mg/L	0.0326				0.64%
As 188.979†	164.0	0.0603	mg/L	0.00283	0.0603	mg/L	0.00283	4.70%
Tl 190.801†	-202.0	-0.0384	mg/L	0.00501	-0.0384	mg/L	0.00501	13.04%
Se 196.026†	-122.3	0.0309	mg/L	0.00257	0.0309	mg/L	0.00257	8.31%
Zn 206.200†	220546.3	2.006	mg/L	0.0037	2.006	mg/L	0.0037	0.18%
Sb 206.836†	-21.0	-0.0055	mg/L	0.00169	-0.0055	mg/L	0.00169	30.84%
Pb 220.353†	15961.6	1.549	mg/L	0.0061	1.549	mg/L	0.0061	0.40%

Cd 226.502†	5141.7	0.0002 mg/L	0.00027	0.0002 mg/L	0.00027	112.34%
Co 228.616†	2332.8	0.0572 mg/L	0.00019	0.0572 mg/L	0.00019	0.33%
Ni 232.003†	4080.7	0.2041 mg/L	0.00274	0.2041 mg/L	0.00274	1.34%
Ba 233.527†	154999.9	0.9174 mg/L	0.00258	0.9174 mg/L	0.00258	0.28%
Mn 257.610†	2789034.4	2.980 mg/L	0.0327	2.980 mg/L	0.0327	1.10%
Cr 267.716†	33592.4	0.2145 mg/L	0.00143	0.2145 mg/L	0.00143	0.67%
Fe 273.955†	3205740.7	126.8 mg/L	1.31	126.8 mg/L	1.31	1.03%
Mg 279.077†	470221.0	20.69 mg/L	0.281	20.69 mg/L	0.281	1.36%
V 292.402†	106166.4	0.2663 mg/L	0.00184	0.2663 mg/L	0.00184	0.69%
Al 308.215†	2432315.6	62.18 mg/L	0.571	62.18 mg/L	0.571	0.92%
Be 313.107†	13789.0	0.0027 mg/L	0.00043	0.0027 mg/L	0.00043	16.10%
Cu 324.752†	281500.7	0.6913 mg/L	0.00519	0.6913 mg/L	0.00519	0.75%
Ag 338.289†	-5236.2	-0.0215 mg/L	0.00023	-0.0215 mg/L	0.00023	1.05%
Na 330.237†	-4223.3	-2.208 mg/L	0.0508	-2.208 mg/L	0.0508	2.30%
Ca 227.546†	11733.2	22.01 mg/L	0.318	22.01 mg/L	0.318	1.45%
Al RADIAL†	213080.1	62.64 mg/L	0.056	62.64 mg/L	0.056	0.09%
Fe RADIAL†	19863.5	135.9 mg/L	0.42	135.9 mg/L	0.42	0.31%
Ca RADIAL†	99602.4	28.50 mg/L	0.203	28.50 mg/L	0.203	0.71%
K RADIAL†	11384.3	5.559 mg/L	0.0178	5.559 mg/L	0.0178	0.32%
Mg RADIAL†	3153.3	21.25 mg/L	0.099	21.25 mg/L	0.099	0.47%
Na RADIAL†	46902.4	1.801 mg/L	0.0520	1.801 mg/L	0.0520	2.88%

Sequence No.: 82
Sample ID: 12J0481-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 10/16/2012 1:03:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0481-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18057690.7	4.944	mg/L	0.0411				0.83%
Y RADIAL	345354.7	5.121	mg/L	0.0910				1.78%
As 188.979†	127.6	0.0524	mg/L	0.00204	0.0524	mg/L	0.00204	3.89%
Tl 190.801†	-259.1	-0.0516	mg/L	0.00458	-0.0516	mg/L	0.00458	8.87%
Se 196.026†	-127.6	0.0348	mg/L	0.00540	0.0348	mg/L	0.00540	15.50%
Zn 206.200†	177000.1	1.608	mg/L	0.0105	1.608	mg/L	0.0105	0.65%
Sb 206.836†	-45.8	-0.0109	mg/L	0.00283	-0.0109	mg/L	0.00283	26.00%
Pb 220.353†	18020.7	1.749	mg/L	0.0148	1.749	mg/L	0.0148	0.85%
Cd 226.502†	5363.8	-0.0005	mg/L	0.00012	-0.0005	mg/L	0.00012	26.52%
Co 228.616†	2374.1	0.0582	mg/L	0.00072	0.0582	mg/L	0.00072	1.23%
Ni 232.003†	4218.2	0.2118	mg/L	0.00108	0.2118	mg/L	0.00108	0.51%
Ba 233.527†	109685.8	0.6492	mg/L	0.00430	0.6492	mg/L	0.00430	0.66%
Mn 257.610†	2590769.5	2.769	mg/L	0.0162	2.769	mg/L	0.0162	0.58%
Cr 267.716†	35356.7	0.2258	mg/L	0.00092	0.2258	mg/L	0.00092	0.41%
Fe 273.955†	3439688.2	136.0	mg/L	1.03	136.0	mg/L	1.03	0.76%
Mg 279.077†	512160.7	22.53	mg/L	0.119	22.53	mg/L	0.119	0.53%
V 292.402†	110753.0	0.2775	mg/L	0.00136	0.2775	mg/L	0.00136	0.49%
Al 308.215†	2538542.0	64.90	mg/L	0.671	64.90	mg/L	0.671	1.03%
Be 313.107†	12404.6	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.43%
Cu 324.752†	253195.6	0.6227	mg/L	0.00522	0.6227	mg/L	0.00522	0.84%
Ag 338.289†	-5942.4	-0.0243	mg/L	0.00012	-0.0243	mg/L	0.00012	0.49%
Na 330.237†	-4194.1	-2.152	mg/L	0.0163	-2.152	mg/L	0.0163	0.76%
Ca 227.546†	8825.3	16.75	mg/L	0.180	16.75	mg/L	0.180	1.08%
Al RADIAL†	215617.2	63.39	mg/L	0.548	63.39	mg/L	0.548	0.86%
Fe RADIAL†	20841.4	142.6	mg/L	3.25	142.6	mg/L	3.25	2.28%
Ca RADIAL†	79495.3	22.75	mg/L	0.054	22.75	mg/L	0.054	0.24%
K RADIAL†	13155.7	6.424	mg/L	0.1434	6.424	mg/L	0.1434	2.23%
Mg RADIAL†	3338.2	22.50	mg/L	0.469	22.50	mg/L	0.469	2.09%
Na RADIAL†	51163.5	1.965	mg/L	0.0380	1.965	mg/L	0.0380	1.94%

Sequence No.: 83
Sample ID: CCV-7
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/16/2012 1:08:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17616722.9	4.824	mg/L	0.0027				0.06%
Y RADIAL	324804.7	4.816	mg/L	0.0181				0.38%
As 188.979†	935.4	0.2382	mg/L	0.00288	0.2382	mg/L	0.00288	1.21%
Tl 190.801†	994.8	0.2430	mg/L	0.00139	0.2430	mg/L	0.00139	0.57%
Se 196.026†	508.3	0.2456	mg/L	0.00264	0.2456	mg/L	0.00264	1.07%
Zn 206.200†	274849.0	2.509	mg/L	0.0157	2.509	mg/L	0.0157	0.62%
Sb 206.836†	1152.1	0.2489	mg/L	0.00251	0.2489	mg/L	0.00251	1.01%
Pb 220.353†	2580.5	0.2527	mg/L	0.00110	0.2527	mg/L	0.00110	0.44%
Cd 226.502†	26138.6	0.1219	mg/L	0.00019	0.1219	mg/L	0.00019	0.15%
Co 228.616†	103082.2	2.528	mg/L	0.0058	2.528	mg/L	0.0058	0.23%
Ni 232.003†	55073.2	2.476	mg/L	0.0077	2.476	mg/L	0.0077	0.31%
Ba 233.527†	1710720.3	10.13	mg/L	0.042	10.13	mg/L	0.042	0.42%
Mn 257.610†	2340637.8	2.495	mg/L	0.0070	2.495	mg/L	0.0070	0.28%
Cr 267.716†	156077.9	0.9967	mg/L	0.00335	0.9967	mg/L	0.00335	0.34%
Fe 273.955†	127231.7	5.032	mg/L	0.0114	5.032	mg/L	0.0114	0.23%
Mg 279.077†	557978.6	24.54	mg/L	0.085	24.54	mg/L	0.085	0.35%
V 292.402†	939431.7	2.447	mg/L	0.0033	2.447	mg/L	0.0033	0.14%
Al 308.215†	376307.7	9.619	mg/L	0.0155	9.619	mg/L	0.0155	0.16%
Be 313.107†	1271736.7	0.2473	mg/L	0.00110	0.2473	mg/L	0.00110	0.45%
Cu 324.752†	492374.9	1.200	mg/L	0.0052	1.200	mg/L	0.0052	0.43%
Ag 338.289†	300708.3	1.223	mg/L	0.0082	1.223	mg/L	0.0082	0.67%
Na 330.237†	33608.7	22.89	mg/L	0.171	22.89	mg/L	0.171	0.75%
Ca 227.546†	13295.0	24.25	mg/L	0.114	24.25	mg/L	0.114	0.47%
Al RADIAL†	33158.3	9.748	mg/L	0.0983	9.748	mg/L	0.0983	1.01%
Fe RADIAL†	729.0	4.988	mg/L	0.0251	4.988	mg/L	0.0251	0.50%
Ca RADIAL†	87080.7	24.92	mg/L	0.288	24.92	mg/L	0.288	1.16%
K RADIAL†	9799.1	4.785	mg/L	0.0430	4.785	mg/L	0.0430	0.90%
Mg RADIAL†	3687.8	24.85	mg/L	0.174	24.85	mg/L	0.174	0.70%
Na RADIAL†	639992.4	24.58	mg/L	0.194	24.58	mg/L	0.194	0.79%

Sequence No.: 84
Sample ID: CCB-7
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/16/2012 1:17:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18596997.8	5.092	mg/L	0.0284				0.56%
Y RADIAL	338496.0	5.019	mg/L	0.0300				0.60%
As 188.979†	12.2	0.0031	mg/L	0.00003	0.0031	mg/L	0.00003	1.07%
Tl 190.801†	-1.1	-0.0003	mg/L	0.00235	-0.0003	mg/L	0.00235	887.54%
Se 196.026†	-0.6	-0.0003	mg/L	0.00143	-0.0003	mg/L	0.00143	516.39%
Zn 206.200†	66.5	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	18.46%
Sb 206.836†	11.0	0.0024	mg/L	0.00121	0.0024	mg/L	0.00121	51.14%
Pb 220.353†	15.0	0.0015	mg/L	0.00124	0.0015	mg/L	0.00124	84.58%
Cd 226.502†	28.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	14.41%
Co 228.616†	44.0	0.0011	mg/L	0.00009	0.0011	mg/L	0.00009	8.73%
Ni 232.003†	-1.4	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	545.50%
Ba 233.527†	572.3	0.0034	mg/L	0.00050	0.0034	mg/L	0.00050	14.84%
Mn 257.610†	760.8	0.0008	mg/L	0.00010	0.0008	mg/L	0.00010	12.80%
Cr 267.716†	36.8	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	71.07%
Fe 273.955†	89.4	0.0035	mg/L	0.00054	0.0035	mg/L	0.00054	15.31%
Mg 279.077†	154.4	0.0068	mg/L	0.00188	0.0068	mg/L	0.00188	27.66%
V 292.402†	326.3	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	18.94%
Al 308.215†	-61.9	-0.0016	mg/L	0.00325	-0.0016	mg/L	0.00325	205.71%
Be 313.107†	851.2	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	51.76%
Cu 324.752†	73.4	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	140.25%
Ag 338.289†	833.3	0.0034	mg/L	0.00086	0.0034	mg/L	0.00086	25.47%
Na 330.237†	5.7	0.0039	mg/L	0.05123	0.0039	mg/L	0.05123	>999.9%
Ca 227.546†	-3.0	-0.0054	mg/L	0.04281	-0.0054	mg/L	0.04281	789.16%
Al RADIAL†	26.5	0.0078	mg/L	0.00146	0.0078	mg/L	0.00146	18.78%
Fe RADIAL†	-0.5	-0.0033	mg/L	0.01180	-0.0033	mg/L	0.01180	361.58%
Ca RADIAL†	88.1	0.0252	mg/L	0.00148	0.0252	mg/L	0.00148	5.87%
K RADIAL†	15.7	0.0077	mg/L	0.00914	0.0077	mg/L	0.00914	119.25%
Mg RADIAL†	-1.3	-0.0086	mg/L	0.01981	-0.0086	mg/L	0.01981	230.68%
Na RADIAL†	-700.6	-0.0269	mg/L	0.02099	-0.0269	mg/L	0.02099	78.01%

Sequence No.: 85
Sample ID: 12J0481-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 10/16/2012 1:22:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0481-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18189073.9	4.980	mg/L	0.0486				0.98%
Y RADIAL	345933.6	5.129	mg/L	0.0139				0.27%
As 188.979†	52.5	0.0261	mg/L	0.00171	0.0261	mg/L	0.00171	6.55%
Tl 190.801†	-177.5	-0.0359	mg/L	0.00668	-0.0359	mg/L	0.00668	18.61%
Se 196.026†	-83.7	0.0211	mg/L	0.00307	0.0211	mg/L	0.00307	14.55%
Zn 206.200†	119018.9	1.082	mg/L	0.0150	1.082	mg/L	0.0150	1.38%
Sb 206.836†	-35.8	-0.0084	mg/L	0.00278	-0.0084	mg/L	0.00278	33.08%
Pb 220.353†	7194.2	0.6959	mg/L	0.00945	0.6959	mg/L	0.00945	1.36%
Cd 226.502†	2719.7	-0.0036	mg/L	0.00019	-0.0036	mg/L	0.00019	5.28%
Co 228.616†	1723.6	0.0423	mg/L	0.00035	0.0423	mg/L	0.00035	0.83%
Ni 232.003†	3297.2	0.1623	mg/L	0.00403	0.1623	mg/L	0.00403	2.48%
Ba 233.527†	88022.8	0.5210	mg/L	0.00633	0.5210	mg/L	0.00633	1.22%
Mn 257.610†	1235868.9	1.322	mg/L	0.0254	1.322	mg/L	0.0254	1.92%
Cr 267.716†	18210.5	0.1163	mg/L	0.00151	0.1163	mg/L	0.00151	1.30%
Fe 273.955†	2193791.4	86.76	mg/L	1.884	86.76	mg/L	1.884	2.17%
Mg 279.077†	422161.5	18.57	mg/L	0.271	18.57	mg/L	0.271	1.46%
V 292.402†	63501.4	0.1584	mg/L	0.00296	0.1584	mg/L	0.00296	1.87%
Al 308.215†	1690165.1	43.21	mg/L	0.851	43.21	mg/L	0.851	1.97%
Be 313.107†	9209.5	0.0018	mg/L	0.00019	0.0018	mg/L	0.00019	10.82%
Cu 324.752†	115982.0	0.2860	mg/L	0.00438	0.2860	mg/L	0.00438	1.53%
Ag 338.289†	-4924.1	-0.0202	mg/L	0.00112	-0.0202	mg/L	0.00112	5.56%
Na 330.237†	-2880.6	-1.504	mg/L	0.0946	-1.504	mg/L	0.0946	6.29%
Ca 227.546†	8009.7	15.03	mg/L	0.096	15.03	mg/L	0.096	0.64%
Al RADIAL†	145780.6	42.86	mg/L	0.200	42.86	mg/L	0.200	0.47%
Fe RADIAL†	12997.5	88.93	mg/L	0.318	88.93	mg/L	0.318	0.36%
Ca RADIAL†	66207.5	18.94	mg/L	0.021	18.94	mg/L	0.021	0.11%
K RADIAL†	10754.1	5.251	mg/L	0.0118	5.251	mg/L	0.0118	0.22%
Mg RADIAL†	2630.7	17.73	mg/L	0.059	17.73	mg/L	0.059	0.33%
Na RADIAL†	38753.7	1.488	mg/L	0.0230	1.488	mg/L	0.0230	1.54%

Sequence No.: 86
Sample ID: 12J0499-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 10/16/2012 1:28:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17611210.4	4.822	mg/L	0.0189				0.39%
Y RADIAL	332268.4	4.927	mg/L	0.0342				0.69%
As 188.979†	183.0	0.0836	mg/L	0.00208	0.0836	mg/L	0.00208	2.49%
Tl 190.801†	-163.7	-0.0187	mg/L	0.00067	-0.0187	mg/L	0.00067	3.58%
Se 196.026†	-267.0	0.0505	mg/L	0.00097	0.0505	mg/L	0.00097	1.92%
Zn 206.200†	458317.1	4.170	mg/L	0.0254	4.170	mg/L	0.0254	0.61%
Sb 206.836†	-72.9	-0.0172	mg/L	0.00327	-0.0172	mg/L	0.00327	18.94%
Pb 220.353†	46289.2	4.500	mg/L	0.0297	4.500	mg/L	0.0297	0.66%
Cd 226.502†	8828.0	-0.0062	mg/L	0.00023	-0.0062	mg/L	0.00023	3.76%
Co 228.616†	4545.7	0.1115	mg/L	0.00063	0.1115	mg/L	0.00063	0.56%
Ni 232.003†	6135.1	0.3170	mg/L	0.00243	0.3170	mg/L	0.00243	0.77%
Ba 233.527†	158515.7	0.9382	mg/L	0.00450	0.9382	mg/L	0.00450	0.48%
Mn 257.610†	7082255.6	7.564	mg/L	0.0156	7.564	mg/L	0.0156	0.21%
Cr 267.716†	25364.4	0.1620	mg/L	0.00092	0.1620	mg/L	0.00092	0.57%
Fe 273.955†	6392992.0	252.8	mg/L	0.52	252.8	mg/L	0.52	0.21%
Mg 279.077†	1492269.6	65.65	mg/L	0.399	65.65	mg/L	0.399	0.61%
V 292.402†	79185.9	0.1858	mg/L	0.00048	0.1858	mg/L	0.00048	0.26%
Al 308.215†	3897253.4	99.64	mg/L	0.876	99.64	mg/L	0.876	0.88%
Be 313.107†	13188.5	0.0026	mg/L	0.00012	0.0026	mg/L	0.00012	4.64%

Cu 324.752†	138974.1	0.3485 mg/L	0.00203	0.3485 mg/L	0.00203	0.58%
Ag 338.289†	-4421.0	-0.0183 mg/L	0.00038	-0.0183 mg/L	0.00038	2.08%
Na 330.237†	-7061.1	-3.493 mg/L	0.0421	-3.493 mg/L	0.0421	1.20%
Ca 227.546†	18536.8	35.02 mg/L	0.288	35.02 mg/L	0.288	0.82%
Al RADIAL†	338169.4	99.41 mg/L	0.489	99.41 mg/L	0.489	0.49%
Fe RADIAL†	40712.0	278.6 mg/L	1.84	278.6 mg/L	1.84	0.66%
Ca RADIAL†	163348.5	46.74 mg/L	0.089	46.74 mg/L	0.089	0.19%
K RADIAL†	21604.5	10.55 mg/L	0.047	10.55 mg/L	0.047	0.45%
Mg RADIAL†	9747.8	65.69 mg/L	0.428	65.69 mg/L	0.428	0.65%
Na RADIAL†	16614.9	0.6382 mg/L	0.01476	0.6382 mg/L	0.01476	2.31%

Sequence No.: 87
Sample ID: 12J0499-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 10/16/2012 1:33:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17663209.1	4.836	mg/L	0.0379				0.78%
Y RADIAL	338530.2	5.019	mg/L	0.0631				1.26%
As 188.979†	174.9	0.0762	mg/L	0.00150	0.0762	mg/L	0.00150	1.97%
Tl 190.801†	-124.0	-0.0122	mg/L	0.00087	-0.0122	mg/L	0.00087	7.09%
Se 196.026†	-227.6	0.0434	mg/L	0.00339	0.0434	mg/L	0.00339	7.81%
Zn 206.200†	566667.9	5.162	mg/L	0.0616	5.162	mg/L	0.0616	1.19%
Sb 206.836†	-37.3	-0.0092	mg/L	0.00280	-0.0092	mg/L	0.00280	30.53%
Pb 220.353†	68322.1	6.655	mg/L	0.0895	6.655	mg/L	0.0895	1.34%
Cd 226.502†	7944.1	-0.0034	mg/L	0.00040	-0.0034	mg/L	0.00040	11.84%
Co 228.616†	3757.1	0.0921	mg/L	0.00157	0.0921	mg/L	0.00157	1.71%
Ni 232.003†	4947.8	0.2576	mg/L	0.00342	0.2576	mg/L	0.00342	1.33%
Ba 233.527†	189634.8	1.122	mg/L	0.0085	1.122	mg/L	0.0085	0.76%
Mn 257.610†	5909804.5	6.312	mg/L	0.0406	6.312	mg/L	0.0406	0.64%
Cr 267.716†	39510.5	0.2523	mg/L	0.00331	0.2523	mg/L	0.00331	1.31%
Fe 273.955†	5460438.9	216.0	mg/L	1.62	216.0	mg/L	1.62	0.75%
Mg 279.077†	1053578.0	46.35	mg/L	0.321	46.35	mg/L	0.321	0.69%
V 292.402†	64251.0	0.1499	mg/L	0.00226	0.1499	mg/L	0.00226	1.51%
Al 308.215†	2935099.8	75.04	mg/L	0.499	75.04	mg/L	0.499	0.66%
Be 313.107†	10751.6	0.0021	mg/L	0.00012	0.0021	mg/L	0.00012	5.62%
Cu 324.752†	127192.1	0.3186	mg/L	0.00302	0.3186	mg/L	0.00302	0.95%
Ag 338.289†	-2563.7	-0.0108	mg/L	0.00028	-0.0108	mg/L	0.00028	2.58%
Na 330.237†	-7568.6	-4.022	mg/L	0.0791	-4.022	mg/L	0.0791	1.97%
Ca 227.546†	17848.6	33.58	mg/L	0.348	33.58	mg/L	0.348	1.04%
Al RADIAL†	251129.4	73.82	mg/L	0.356	73.82	mg/L	0.356	0.48%
Fe RADIAL†	34132.5	233.5	mg/L	2.52	233.5	mg/L	2.52	1.08%
Ca RADIAL†	150982.8	43.20	mg/L	0.016	43.20	mg/L	0.016	0.04%
K RADIAL†	17306.1	8.451	mg/L	0.1367	8.451	mg/L	0.1367	1.62%
Mg RADIAL†	6925.7	46.67	mg/L	0.628	46.67	mg/L	0.628	1.35%
Na RADIAL†	15818.7	0.6076	mg/L	0.04731	0.6076	mg/L	0.04731	7.79%

Sequence No.: 88
Sample ID: 12J0499-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 10/16/2012 1:38:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17667868.4	4.838	mg/L	0.0251				0.52%
Y RADIAL	334801.8	4.964	mg/L	0.0076				0.15%
As 188.979†	265.4	0.1100	mg/L	0.00259	0.1100	mg/L	0.00259	2.35%
Tl 190.801†	-144.9	-0.0112	mg/L	0.00107	-0.0112	mg/L	0.00107	9.57%
Se 196.026†	-306.3	0.0578	mg/L	0.00532	0.0578	mg/L	0.00532	9.19%
Zn 206.200†	337916.4	3.069	mg/L	0.0069	3.069	mg/L	0.0069	0.23%
Sb 206.836†	-112.1	-0.0257	mg/L	0.00130	-0.0257	mg/L	0.00130	5.05%
Pb 220.353†	21498.4	2.072	mg/L	0.0119	2.072	mg/L	0.0119	0.57%
Cd 226.502†	9417.9	-0.0104	mg/L	0.00047	-0.0104	mg/L	0.00047	4.48%

Co 228.616†	6159.9	0.1511	mg/L	0.00112	0.1511	mg/L	0.00112	0.74%
Ni 232.003†	6917.2	0.3582	mg/L	0.00095	0.3582	mg/L	0.00095	0.26%
Ba 233.527†	100922.6	0.5973	mg/L	0.00062	0.5973	mg/L	0.00062	0.10%
Mn 257.610†	9393361.4	10.03	mg/L	0.059	10.03	mg/L	0.059	0.59%
Cr 267.716†	20386.2	0.1302	mg/L	0.00058	0.1302	mg/L	0.00058	0.45%
Fe 273.955†	7328881.0	289.8	mg/L	1.93	289.8	mg/L	1.93	0.67%
Mg 279.077†	1225696.1	53.92	mg/L	0.294	53.92	mg/L	0.294	0.55%
V 292.402†	83441.5	0.1939	mg/L	0.00167	0.1939	mg/L	0.00167	0.86%
Al 308.215†	3857421.1	98.63	mg/L	0.308	98.63	mg/L	0.308	0.31%
Be 313.107†	14066.2	0.0027	mg/L	0.00008	0.0027	mg/L	0.00008	3.00%
Cu 324.752†	150141.5	0.3781	mg/L	0.00160	0.3781	mg/L	0.00160	0.42%
Ag 338.289†	-5130.0	-0.0210	mg/L	0.00038	-0.0210	mg/L	0.00038	1.80%
Na 330.237†	-6209.2	-2.768	mg/L	0.0371	-2.768	mg/L	0.0371	1.34%
Ca 227.546†	7576.9	15.22	mg/L	0.176	15.22	mg/L	0.176	1.15%
Al RADIAL†	333205.1	97.95	mg/L	0.491	97.95	mg/L	0.491	0.50%
Fe RADIAL†	47358.4	324.0	mg/L	0.76	324.0	mg/L	0.76	0.24%
Ca RADIAL†	105103.8	30.07	mg/L	0.226	30.07	mg/L	0.226	0.75%
K RADIAL†	25442.9	12.42	mg/L	0.025	12.42	mg/L	0.025	0.20%
Mg RADIAL†	8062.8	54.34	mg/L	0.190	54.34	mg/L	0.190	0.35%
Na RADIAL†	13656.5	0.5245	mg/L	0.01367	0.5245	mg/L	0.01367	2.61%

Sequence No.: 89 **Autosampler Location: 73**
Sample ID: 12J0499-04 **Date Collected: 10/16/2012 1:43:12 AM**
Analyst: MW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: 12J0499-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17731024.0	4.855	mg/L	0.0400				0.82%
Y RADIAL	338364.7	5.017	mg/L	0.0339				0.68%
As 188.979†	296.7	0.1130	mg/L	0.00270	0.1130	mg/L	0.00270	2.39%
Tl 190.801†	-136.7	-0.0119	mg/L	0.00113	-0.0119	mg/L	0.00113	9.46%
Se 196.026†	-273.3	0.0501	mg/L	0.00779	0.0501	mg/L	0.00779	15.56%
Zn 206.200†	165829.5	1.500	mg/L	0.0146	1.500	mg/L	0.0146	0.97%
Sb 206.836†	-82.7	-0.0192	mg/L	0.00138	-0.0192	mg/L	0.00138	7.18%
Pb 220.353†	17550.2	1.690	mg/L	0.0132	1.690	mg/L	0.0132	0.78%
Cd 226.502†	7598.7	-0.0127	mg/L	0.00046	-0.0127	mg/L	0.00046	3.61%
Co 228.616†	5232.1	0.1283	mg/L	0.00083	0.1283	mg/L	0.00083	0.65%
Ni 232.003†	6021.8	0.3125	mg/L	0.00435	0.3125	mg/L	0.00435	1.39%
Ba 233.527†	81187.8	0.4805	mg/L	0.00338	0.4805	mg/L	0.00338	0.70%
Mn 257.610†	8020784.5	8.565	mg/L	0.0714	8.565	mg/L	0.0714	0.83%
Cr 267.716†	17008.2	0.1086	mg/L	0.00147	0.1086	mg/L	0.00147	1.36%
Fe 273.955†	6484159.8	256.4	mg/L	1.14	256.4	mg/L	1.14	0.44%
Mg 279.077†	943089.8	41.49	mg/L	0.173	41.49	mg/L	0.173	0.42%
V 292.402†	74443.1	0.1731	mg/L	0.00230	0.1731	mg/L	0.00230	1.33%
Al 308.215†	3412252.8	87.24	mg/L	0.166	87.24	mg/L	0.166	0.19%
Be 313.107†	15049.0	0.0029	mg/L	0.00014	0.0029	mg/L	0.00014	4.90%
Cu 324.752†	151544.4	0.3803	mg/L	0.00249	0.3803	mg/L	0.00249	0.65%
Ag 338.289†	-4612.3	-0.0189	mg/L	0.00092	-0.0189	mg/L	0.00092	4.86%
Na 330.237†	-4262.3	-1.618	mg/L	0.0329	-1.618	mg/L	0.0329	2.03%
Ca 227.546†	5180.3	10.69	mg/L	0.069	10.69	mg/L	0.069	0.64%
Al RADIAL†	297249.9	87.38	mg/L	0.397	87.38	mg/L	0.397	0.45%
Fe RADIAL†	41174.7	281.7	mg/L	1.89	281.7	mg/L	1.89	0.67%
Ca RADIAL†	78761.8	22.54	mg/L	0.065	22.54	mg/L	0.065	0.29%
K RADIAL†	22869.8	11.17	mg/L	0.031	11.17	mg/L	0.031	0.28%
Mg RADIAL†	6252.0	42.13	mg/L	0.297	42.13	mg/L	0.297	0.70%
Na RADIAL†	12298.0	0.4724	mg/L	0.02648	0.4724	mg/L	0.02648	5.61%

Sequence No.: 90 **Autosampler Location: 74**
Sample ID: 12J0499-05 **Date Collected: 10/16/2012 1:48:12 AM**
Analyst: MW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: 12J0499-05

Mean Corrected Calib. Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	17611292.8	4.822	mg/L	0.0375				0.78%
Y RADIAL	341387.0	5.062	mg/L	0.0436				0.86%
As 188.979†	218.7	0.0930	mg/L	0.00371	0.0930	mg/L	0.00371	3.99%
Tl 190.801†	-171.2	-0.0201	mg/L	0.00368	-0.0201	mg/L	0.00368	18.30%
Se 196.026†	-278.5	0.0465	mg/L	0.00481	0.0465	mg/L	0.00481	10.35%
Zn 206.200†	160552.3	1.451	mg/L	0.0045	1.451	mg/L	0.0045	0.31%
Sb 206.836†	-81.8	-0.0195	mg/L	0.00166	-0.0195	mg/L	0.00166	8.54%
Pb 220.353†	47386.1	4.609	mg/L	0.0451	4.609	mg/L	0.0451	0.98%
Cd 226.502†	7370.1	-0.0134	mg/L	0.00035	-0.0134	mg/L	0.00035	2.57%
Co 228.616†	4510.4	0.1106	mg/L	0.00199	0.1106	mg/L	0.00199	1.80%
Ni 232.003†	6475.6	0.3326	mg/L	0.00512	0.3326	mg/L	0.00512	1.54%
Ba 233.527†	94784.6	0.5610	mg/L	0.00514	0.5610	mg/L	0.00514	0.92%
Mn 257.610†	6943386.5	7.416	mg/L	0.0522	7.416	mg/L	0.0522	0.70%
Cr 267.716†	24059.2	0.1536	mg/L	0.00114	0.1536	mg/L	0.00114	0.74%
Fe 273.955†	6442770.1	254.8	mg/L	1.58	254.8	mg/L	1.58	0.62%
Mg 279.077†	1420033.9	62.47	mg/L	0.410	62.47	mg/L	0.410	0.66%
V 292.402†	89158.1	0.2116	mg/L	0.00172	0.2116	mg/L	0.00172	0.81%
Al 308.215†	4741068.5	121.2	mg/L	1.14	121.2	mg/L	1.14	0.94%
Be 313.107†	16384.5	0.0032	mg/L	0.00019	0.0032	mg/L	0.00019	5.83%
Cu 324.752†	142706.5	0.3577	mg/L	0.00527	0.3577	mg/L	0.00527	1.47%
Ag 338.289†	-4607.1	-0.0190	mg/L	0.00091	-0.0190	mg/L	0.00091	4.81%
Na 330.237†	-4200.3	-1.555	mg/L	0.0392	-1.555	mg/L	0.0392	2.52%
Ca 227.546†	13591.2	26.03	mg/L	0.370	26.03	mg/L	0.370	1.42%
Al RADIAL†	404870.0	119.0	mg/L	0.80	119.0	mg/L	0.80	0.67%
Fe RADIAL†	40846.7	279.5	mg/L	6.17	279.5	mg/L	6.17	2.21%
Ca RADIAL†	131761.5	37.70	mg/L	0.031	37.70	mg/L	0.031	0.08%
K RADIAL†	23144.5	11.30	mg/L	0.231	11.30	mg/L	0.231	2.04%
Mg RADIAL†	9171.9	61.81	mg/L	1.355	61.81	mg/L	1.355	2.19%
Na RADIAL†	18563.8	0.7130	mg/L	0.02186	0.7130	mg/L	0.02186	3.07%

Sequence No.: 91
Sample ID: 12J0499-06
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 10/16/2012 1:53:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17769191.8	4.865	mg/L	0.0098				0.20%
Y RADIAL	340605.6	5.050	mg/L	0.0525				1.04%
As 188.979†	147.0	0.0708	mg/L	0.00160	0.0708	mg/L	0.00160	2.25%
Tl 190.801†	-140.7	-0.0151	mg/L	0.00102	-0.0151	mg/L	0.00102	6.75%
Se 196.026†	-233.3	0.0491	mg/L	0.00795	0.0491	mg/L	0.00795	16.20%
Zn 206.200†	104478.3	0.9411	mg/L	0.00607	0.9411	mg/L	0.00607	0.64%
Sb 206.836†	-85.3	-0.0199	mg/L	0.00090	-0.0199	mg/L	0.00090	4.52%
Pb 220.353†	5674.9	0.5342	mg/L	0.00173	0.5342	mg/L	0.00173	0.32%
Cd 226.502†	6238.5	-0.0137	mg/L	0.00035	-0.0137	mg/L	0.00035	2.54%
Co 228.616†	4252.9	0.1043	mg/L	0.00088	0.1043	mg/L	0.00088	0.84%
Ni 232.003†	5938.3	0.3041	mg/L	0.00191	0.3041	mg/L	0.00191	0.63%
Ba 233.527†	72046.9	0.4264	mg/L	0.00184	0.4264	mg/L	0.00184	0.43%
Mn 257.610†	7303509.8	7.799	mg/L	0.0332	7.799	mg/L	0.0332	0.43%
Cr 267.716†	16945.6	0.1082	mg/L	0.00024	0.1082	mg/L	0.00024	0.22%
Fe 273.955†	5763672.6	227.9	mg/L	0.78	227.9	mg/L	0.78	0.34%
Mg 279.077†	999636.9	43.98	mg/L	0.038	43.98	mg/L	0.038	0.09%
V 292.402†	71809.5	0.1686	mg/L	0.00034	0.1686	mg/L	0.00034	0.20%
Al 308.215†	3824624.2	97.78	mg/L	0.797	97.78	mg/L	0.797	0.82%
Be 313.107†	16240.2	0.0032	mg/L	0.00007	0.0032	mg/L	0.00007	2.30%
Cu 324.752†	131208.2	0.3289	mg/L	0.00133	0.3289	mg/L	0.00133	0.40%
Ag 338.289†	-4454.4	-0.0183	mg/L	0.00030	-0.0183	mg/L	0.00030	1.65%
Na 330.237†	-3543.1	-1.249	mg/L	0.0236	-1.249	mg/L	0.0236	1.89%
Ca 227.546†	11432.3	21.96	mg/L	0.179	21.96	mg/L	0.179	0.82%
Al RADIAL†	329365.1	96.82	mg/L	0.353	96.82	mg/L	0.353	0.36%
Fe RADIAL†	35792.4	244.9	mg/L	3.83	244.9	mg/L	3.83	1.56%
Ca RADIAL†	113270.5	32.41	mg/L	0.129	32.41	mg/L	0.129	0.40%
K RADIAL†	23650.9	11.55	mg/L	0.156	11.55	mg/L	0.156	1.35%
Mg RADIAL†	6486.7	43.72	mg/L	0.739	43.72	mg/L	0.739	1.69%
Na RADIAL†	12709.1	0.4881	mg/L	0.02321	0.4881	mg/L	0.02321	4.76%

Sequence No.: 92
Sample ID: 12J0499-07
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 10/16/2012 1:58:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17162500.4	4.699	mg/L	0.0002				0.00%
Y RADIAL	333774.0	4.949	mg/L	0.0675				1.36%
As 188.979†	165.3	0.0755	mg/L	0.00192	0.0755	mg/L	0.00192	2.54%
Tl 190.801†	-131.8	-0.0128	mg/L	0.00526	-0.0128	mg/L	0.00526	41.10%
Se 196.026†	-243.1	0.0447	mg/L	0.00463	0.0447	mg/L	0.00463	10.37%
Zn 206.200†	105408.2	0.9494	mg/L	0.00433	0.9494	mg/L	0.00433	0.46%
Sb 206.836†	-89.4	-0.0209	mg/L	0.00244	-0.0209	mg/L	0.00244	11.66%
Pb 220.353†	7622.4	0.7263	mg/L	0.00192	0.7263	mg/L	0.00192	0.26%
Cd 226.502†	6223.2	-0.0138	mg/L	0.00037	-0.0138	mg/L	0.00037	2.68%
Co 228.616†	3695.4	0.0906	mg/L	0.00012	0.0906	mg/L	0.00012	0.13%
Ni 232.003†	5229.7	0.2723	mg/L	0.00425	0.2723	mg/L	0.00425	1.56%
Ba 233.527†	58670.8	0.3473	mg/L	0.00006	0.3473	mg/L	0.00006	0.02%
Mn 257.610†	5726739.5	6.116	mg/L	0.0096	6.116	mg/L	0.0096	0.16%
Cr 267.716†	18003.6	0.1150	mg/L	0.00048	0.1150	mg/L	0.00048	0.42%
Fe 273.955†	5771447.0	228.3	mg/L	0.27	228.3	mg/L	0.27	0.12%
Mg 279.077†	2418733.8	106.4	mg/L	0.26	106.4	mg/L	0.26	0.24%
V 292.402†	75461.8	0.1781	mg/L	0.00029	0.1781	mg/L	0.00029	0.16%
Al 308.215†	4118189.1	105.3	mg/L	0.26	105.3	mg/L	0.26	0.25%
Be 313.107†	13885.8	0.0027	mg/L	0.00004	0.0027	mg/L	0.00004	1.59%
Cu 324.752†	112984.2	0.2817	mg/L	0.00053	0.2817	mg/L	0.00053	0.19%
Ag 338.289†	-3867.2	-0.0170	mg/L	0.00027	-0.0170	mg/L	0.00027	1.62%
Na 330.237†	-3190.9	-0.8424	mg/L	0.01809	-0.8424	mg/L	0.01809	2.15%
Ca 227.546†	63770.3	117.3	mg/L	0.03	117.3	mg/L	0.03	0.03%
Al RADIAL†	347456.3	102.1	mg/L	0.11	102.1	mg/L	0.11	0.11%
Fe RADIAL†	35537.6	243.2	mg/L	2.40	243.2	mg/L	2.40	0.99%
Ca RADIAL†	440768.5	126.1	mg/L	0.25	126.1	mg/L	0.25	0.19%
K RADIAL†	19308.6	9.428	mg/L	0.1265	9.428	mg/L	0.1265	1.34%
Mg RADIAL†	15354.8	103.5	mg/L	0.88	103.5	mg/L	0.88	0.85%
Na RADIAL†	19887.7	0.7639	mg/L	0.02581	0.7639	mg/L	0.02581	3.38%

Sequence No.: 93
Sample ID: 12J0499-08
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 10/16/2012 2:03:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17324058.5	4.744	mg/L	0.0254				0.53%
Y RADIAL	336851.5	4.994	mg/L	0.0230				0.46%
As 188.979†	166.3	0.0750	mg/L	0.00476	0.0750	mg/L	0.00476	6.35%
Tl 190.801†	-115.4	-0.0092	mg/L	0.00424	-0.0092	mg/L	0.00424	45.87%
Se 196.026†	-241.8	0.0415	mg/L	0.00304	0.0415	mg/L	0.00304	7.33%
Zn 206.200†	175534.5	1.590	mg/L	0.0128	1.590	mg/L	0.0128	0.81%
Sb 206.836†	-58.6	-0.0142	mg/L	0.00445	-0.0142	mg/L	0.00445	31.29%
Pb 220.353†	16274.3	1.572	mg/L	0.0055	1.572	mg/L	0.0055	0.35%
Cd 226.502†	6665.0	-0.0107	mg/L	0.00033	-0.0107	mg/L	0.00033	3.03%
Co 228.616†	3771.3	0.0925	mg/L	0.00085	0.0925	mg/L	0.00085	0.92%
Ni 232.003†	5758.1	0.2952	mg/L	0.00560	0.2952	mg/L	0.00560	1.90%
Ba 233.527†	78643.5	0.4655	mg/L	0.00350	0.4655	mg/L	0.00350	0.75%
Mn 257.610†	6868626.8	7.334	mg/L	0.0637	7.334	mg/L	0.0637	0.87%
Cr 267.716†	25909.4	0.1655	mg/L	0.00145	0.1655	mg/L	0.00145	0.88%
Fe 273.955†	5635437.6	222.9	mg/L	1.69	222.9	mg/L	1.69	0.76%
Mg 279.077†	2213511.2	97.37	mg/L	0.913	97.37	mg/L	0.913	0.94%
V 292.402†	74954.9	0.1772	mg/L	0.00153	0.1772	mg/L	0.00153	0.86%
Al 308.215†	4059856.9	103.8	mg/L	0.75	103.8	mg/L	0.75	0.72%
Be 313.107†	12699.8	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013	5.25%
Cu 324.752†	139119.2	0.3458	mg/L	0.00171	0.3458	mg/L	0.00171	0.50%

Ag 338.289†	-3281.7	-0.0143 mg/L	0.00008	-0.0143 mg/L	0.00008	0.58%
Na 330.237†	-3787.4	-1.314 mg/L	0.0225	-1.314 mg/L	0.0225	1.71%
Ca 227.546†	50766.6	93.60 mg/L	0.957	93.60 mg/L	0.957	1.02%
Al RADIAL†	343604.0	101.0 mg/L	0.25	101.0 mg/L	0.25	0.24%
Fe RADIAL†	34983.7	239.4 mg/L	2.27	239.4 mg/L	2.27	0.95%
Ca RADIAL†	362773.9	103.8 mg/L	0.05	103.8 mg/L	0.05	0.04%
K RADIAL†	18420.7	8.995 mg/L	0.1180	8.995 mg/L	0.1180	1.31%
Mg RADIAL†	14180.9	95.57 mg/L	0.711	95.57 mg/L	0.711	0.74%
Na RADIAL†	19964.0	0.7668 mg/L	0.02026	0.7668 mg/L	0.02026	2.64%

Sequence No.: 94
Sample ID: 12J0499-09
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 10/16/2012 2:08:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17183017.5	4.705	mg/L	0.0182				0.39%
Y RADIAL	332348.7	4.928	mg/L	0.0685				1.39%
As 188.979†	167.5	0.0839	mg/L	0.00368	0.0839	mg/L	0.00368	4.38%
Tl 190.801†	-142.6	-0.0113	mg/L	0.00033	-0.0113	mg/L	0.00033	2.96%
Se 196.026†	-304.6	0.0527	mg/L	0.00217	0.0527	mg/L	0.00217	4.11%
Zn 206.200†	105139.5	0.9445	mg/L	0.00731	0.9445	mg/L	0.00731	0.77%
Sb 206.836†	-96.7	-0.0224	mg/L	0.00052	-0.0224	mg/L	0.00052	2.32%
Pb 220.353†	5237.5	0.4861	mg/L	0.00226	0.4861	mg/L	0.00226	0.46%
Cd 226.502†	7763.2	-0.0166	mg/L	0.00065	-0.0166	mg/L	0.00065	3.91%
Co 228.616†	3800.3	0.0932	mg/L	0.00029	0.0932	mg/L	0.00029	0.32%
Ni 232.003†	5761.1	0.3049	mg/L	0.00114	0.3049	mg/L	0.00114	0.37%
Ba 233.527†	105668.9	0.6254	mg/L	0.00493	0.6254	mg/L	0.00493	0.79%
Mn 257.610†	7372073.1	7.873	mg/L	0.0260	7.873	mg/L	0.0260	0.33%
Cr 267.716†	21921.4	0.1400	mg/L	0.00128	0.1400	mg/L	0.00128	0.92%
Fe 273.955†	7115199.0	281.4	mg/L	0.88	281.4	mg/L	0.88	0.31%
Mg 279.077†	2482646.9	109.2	mg/L	0.49	109.2	mg/L	0.49	0.44%
V 292.402†	80837.7	0.1878	mg/L	0.00311	0.1878	mg/L	0.00311	1.66%
Al 308.215†	3870211.0	98.95	mg/L	0.309	98.95	mg/L	0.309	0.31%
Be 313.107†	13291.2	0.0026	mg/L	0.00011	0.0026	mg/L	0.00011	4.31%
Cu 324.752†	135076.1	0.3376	mg/L	0.00363	0.3376	mg/L	0.00363	1.08%
Ag 338.289†	-3663.5	-0.0165	mg/L	0.00046	-0.0165	mg/L	0.00046	2.76%
Na 330.237†	-3019.8	-0.4094	mg/L	0.03515	-0.4094	mg/L	0.03515	8.59%
Ca 227.546†	82627.3	151.9	mg/L	1.84	151.9	mg/L	1.84	1.21%
Al RADIAL†	330258.7	97.09	mg/L	0.361	97.09	mg/L	0.361	0.37%
Fe RADIAL†	44561.3	304.9	mg/L	2.39	304.9	mg/L	2.39	0.78%
Ca RADIAL†	576225.0	164.9	mg/L	0.58	164.9	mg/L	0.58	0.35%
K RADIAL†	19677.7	9.609	mg/L	0.0728	9.609	mg/L	0.0728	0.76%
Mg RADIAL†	15866.5	106.9	mg/L	1.19	106.9	mg/L	1.19	1.11%
Na RADIAL†	25242.2	0.9695	mg/L	0.05230	0.9695	mg/L	0.05230	5.39%

Sequence No.: 95
Sample ID: CCV-8
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/16/2012 2:12:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-8

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17668851.2	4.838	mg/L	0.0132				0.27%
Y RADIAL	335870.0	4.980	mg/L	0.0495				0.99%
As 188.979†	934.2	0.2379	mg/L	0.00413	0.2379	mg/L	0.00413	1.74%
Tl 190.801†	982.5	0.2400	mg/L	0.00256	0.2400	mg/L	0.00256	1.06%
Se 196.026†	497.1	0.2404	mg/L	0.00116	0.2404	mg/L	0.00116	0.48%
Zn 206.200†	275209.0	2.512	mg/L	0.0249	2.512	mg/L	0.0249	0.99%
Sb 206.836†	1143.9	0.2471	mg/L	0.00370	0.2471	mg/L	0.00370	1.50%
Pb 220.353†	2559.5	0.2506	mg/L	0.00232	0.2506	mg/L	0.00232	0.92%
Cd 226.502†	26272.9	0.1225	mg/L	0.00123	0.1225	mg/L	0.00123	1.00%
Co 228.616†	102938.6	2.525	mg/L	0.0202	2.525	mg/L	0.0202	0.80%

Ni 232.003†	55125.8	2.478 mg/L	0.0308	2.478 mg/L	0.0308	1.24%
Ba 233.527†	1720335.7	10.18 mg/L	0.039	10.18 mg/L	0.039	0.38%
Mn 257.610†	2359781.2	2.516 mg/L	0.0106	2.516 mg/L	0.0106	0.42%
Cr 267.716†	156433.4	0.9990 mg/L	0.01396	0.9990 mg/L	0.01396	1.40%
Fe 273.955†	127459.6	5.041 mg/L	0.0336	5.041 mg/L	0.0336	0.67%
Mg 279.077†	562218.5	24.73 mg/L	0.174	24.73 mg/L	0.174	0.70%
V 292.402†	948301.1	2.470 mg/L	0.0185	2.470 mg/L	0.0185	0.75%
Al 308.215†	378251.1	9.668 mg/L	0.0261	9.668 mg/L	0.0261	0.27%
Be 313.107†	1283110.0	0.2495 mg/L	0.00236	0.2495 mg/L	0.00236	0.95%
Cu 324.752†	493380.6	1.203 mg/L	0.0094	1.203 mg/L	0.0094	0.78%
Ag 338.289†	300196.0	1.221 mg/L	0.0143	1.221 mg/L	0.0143	1.17%
Na 330.237†	33545.2	22.84 mg/L	0.226	22.84 mg/L	0.226	0.99%
Ca 227.546†	13174.5	24.03 mg/L	0.115	24.03 mg/L	0.115	0.48%
Al RADIAL†	32559.6	9.572 mg/L	0.0468	9.572 mg/L	0.0468	0.49%
Fe RADIAL†	718.2	4.914 mg/L	0.0886	4.914 mg/L	0.0886	1.80%
Ca RADIAL†	85833.5	24.56 mg/L	0.076	24.56 mg/L	0.076	0.31%
K RADIAL†	9666.1	4.720 mg/L	0.0276	4.720 mg/L	0.0276	0.58%
Mg RADIAL†	3586.3	24.17 mg/L	0.297	24.17 mg/L	0.297	1.23%
Na RADIAL†	621029.0	23.85 mg/L	0.398	23.85 mg/L	0.398	1.67%

Sequence No.: 96
Sample ID: CCB-8
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/16/2012 2:21:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-8

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18566555.6	5.084	mg/L	0.0084				0.17%
Y RADIAL	338250.0	5.015	mg/L	0.0365				0.73%
As 188.979†	4.2	0.0011	mg/L	0.00133	0.0011	mg/L	0.00133	123.72%
Tl 190.801†	5.7	0.0014	mg/L	0.00170	0.0014	mg/L	0.00170	122.42%
Se 196.026†	-2.3	-0.0011	mg/L	0.00171	-0.0011	mg/L	0.00171	157.01%
Zn 206.200†	76.3	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	23.48%
Sb 206.836†	-3.9	-0.0008	mg/L	0.00149	-0.0008	mg/L	0.00149	175.60%
Pb 220.353†	1.9	0.0002	mg/L	0.00112	0.0002	mg/L	0.00112	607.07%
Cd 226.502†	15.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	68.37%
Co 228.616†	41.6	0.0010	mg/L	0.00025	0.0010	mg/L	0.00025	24.39%
Ni 232.003†	6.3	0.0003	mg/L	0.00121	0.0003	mg/L	0.00121	430.11%
Ba 233.527†	539.9	0.0032	mg/L	0.00024	0.0032	mg/L	0.00024	7.52%
Mn 257.610†	757.7	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.25%
Cr 267.716†	34.9	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	65.46%
Fe 273.955†	122.7	0.0049	mg/L	0.00097	0.0049	mg/L	0.00097	20.05%
Mg 279.077†	183.9	0.0081	mg/L	0.00081	0.0081	mg/L	0.00081	10.01%
V 292.402†	224.6	0.0006	mg/L	0.00005	0.0006	mg/L	0.00005	8.98%
Al 308.215†	54.7	0.0014	mg/L	0.00101	0.0014	mg/L	0.00101	72.10%
Be 313.107†	743.0	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	53.63%
Cu 324.752†	20.5	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	273.71%
Ag 338.289†	1124.4	0.0046	mg/L	0.00045	0.0046	mg/L	0.00045	9.73%
Na 330.237†	-11.6	-0.0078	mg/L	0.06005	-0.0078	mg/L	0.06005	770.28%
Ca 227.546†	9.7	0.0177	mg/L	0.00881	0.0177	mg/L	0.00881	49.75%
Al RADIAL†	8.8	0.0026	mg/L	0.00237	0.0026	mg/L	0.00237	91.60%
Fe RADIAL†	1.0	0.0068	mg/L	0.01395	0.0068	mg/L	0.01395	204.56%
Ca RADIAL†	87.1	0.0249	mg/L	0.00026	0.0249	mg/L	0.00026	1.03%
K RADIAL†	-0.9	-0.0004	mg/L	0.01088	-0.0004	mg/L	0.01088	>999.9%
Mg RADIAL†	3.3	0.0221	mg/L	0.01713	0.0221	mg/L	0.01713	77.54%
Na RADIAL†	-629.1	-0.0242	mg/L	0.02726	-0.0242	mg/L	0.02726	112.82%

Sequence No.: 97
Sample ID: 12J0499-10
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 10/16/2012 2:27:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0499-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	17058915.8	4.671 mg/L	0.0156			0.33%
Y RADIAL	329964.9	4.892 mg/L	0.0181			0.37%
As 188.979†	116.2	0.0598 mg/L	0.00174	0.0598 mg/L	0.00174	2.91%
Tl 190.801†	-105.9	-0.0083 mg/L	0.00104	-0.0083 mg/L	0.00104	12.54%
Se 196.026†	-222.1	0.0391 mg/L	0.00824	0.0391 mg/L	0.00824	21.06%
Zn 206.200†	110832.5	1.000 mg/L	0.0065	1.000 mg/L	0.0065	0.65%
Sb 206.836†	-75.6	-0.0178 mg/L	0.00300	-0.0178 mg/L	0.00300	16.86%
Pb 220.353†	6393.1	0.6096 mg/L	0.00149	0.6096 mg/L	0.00149	0.25%
Cd 226.502†	5663.1	-0.0123 mg/L	0.00015	-0.0123 mg/L	0.00015	1.24%
Co 228.616†	3255.4	0.0798 mg/L	0.00008	0.0798 mg/L	0.00008	0.09%
Ni 232.003†	4836.4	0.2510 mg/L	0.00202	0.2510 mg/L	0.00202	0.80%
Ba 233.527†	66336.2	0.3926 mg/L	0.00294	0.3926 mg/L	0.00294	0.75%
Mn 257.610†	5894828.2	6.294 mg/L	0.0336	6.294 mg/L	0.0336	0.53%
Cr 267.716†	19979.6	0.1276 mg/L	0.00055	0.1276 mg/L	0.00055	0.43%
Fe 273.955†	5212125.6	206.1 mg/L	1.29	206.1 mg/L	1.29	0.62%
Mg 279.077†	2459196.1	108.2 mg/L	0.53	108.2 mg/L	0.53	0.49%
V 292.402†	74959.6	0.1785 mg/L	0.00098	0.1785 mg/L	0.00098	0.55%
Al 308.215†	3807642.8	97.34 mg/L	0.802	97.34 mg/L	0.802	0.82%
Be 313.107†	11992.4	0.0023 mg/L	0.00012	0.0023 mg/L	0.00012	5.33%
Cu 324.752†	97633.2	0.2411 mg/L	0.00174	0.2411 mg/L	0.00174	0.72%
Ag 338.289†	-2492.0	-0.0125 mg/L	0.00027	-0.0125 mg/L	0.00027	2.12%
Na 330.237†	-2735.5	-0.4542 mg/L	0.04685	-0.4542 mg/L	0.04685	10.31%
Ca 227.546†	125130.5	229.0 mg/L	1.10	229.0 mg/L	1.10	0.48%
Al RADIAL†	322043.2	94.67 mg/L	0.098	94.67 mg/L	0.098	0.10%
Fe RADIAL†	32119.3	219.8 mg/L	1.96	219.8 mg/L	1.96	0.89%
Ca RADIAL†	827932.8	236.9 mg/L	1.15	236.9 mg/L	1.15	0.49%
K RADIAL†	15873.0	7.751 mg/L	0.0492	7.751 mg/L	0.0492	0.64%
Mg RADIAL†	15797.6	106.5 mg/L	0.84	106.5 mg/L	0.84	0.79%
Na RADIAL†	25806.6	0.9912 mg/L	0.00918	0.9912 mg/L	0.00918	0.93%

Sequence No.: 98
Sample ID: BJ20719-BLK1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 10/16/2012 2:32:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20719-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18439582.0	5.049	mg/L	0.0435				0.86%
Y RADIAL	339247.7	5.030	mg/L	0.0385				0.77%
As 188.979†	13.1	0.0033	mg/L	0.00226	0.0033	mg/L	0.00226	67.95%
Tl 190.801†	5.2	0.0013	mg/L	0.00200	0.0013	mg/L	0.00200	156.14%
Se 196.026†	-2.3	-0.0011	mg/L	0.00503	-0.0011	mg/L	0.00503	464.23%
Zn 206.200†	-2.7	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	184.82%
Sb 206.836†	3.9	0.0008	mg/L	0.00099	0.0008	mg/L	0.00099	116.63%
Pb 220.353†	6.8	0.0007	mg/L	0.00195	0.0007	mg/L	0.00195	293.52%
Cd 226.502†	5.1	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	485.02%
Co 228.616†	13.4	0.0003	mg/L	0.00028	0.0003	mg/L	0.00028	86.29%
Ni 232.003†	-8.5	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	78.94%
Ba 233.527†	31.7	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	19.77%
Mn 257.610†	1205.9	0.0013	mg/L	0.00018	0.0013	mg/L	0.00018	13.61%
Cr 267.716†	-0.5	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	916.50%
Fe 273.955†	1095.5	0.0433	mg/L	0.00583	0.0433	mg/L	0.00583	13.46%
Mg 279.077†	478.5	0.0210	mg/L	0.00254	0.0210	mg/L	0.00254	12.06%
V 292.402†	16.9	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	26.45%
Al 308.215†	397.6	0.0102	mg/L	0.00281	0.0102	mg/L	0.00281	27.64%
Be 313.107†	754.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	11.47%
Cu 324.752†	-147.2	-0.0004	mg/L	0.00007	-0.0004	mg/L	0.00007	20.49%
Ag 338.289†	113.1	0.0005	mg/L	0.00031	0.0005	mg/L	0.00031	67.17%
Na 330.237†	-11.7	-0.0077	mg/L	0.03921	-0.0077	mg/L	0.03921	510.95%
Ca 227.546†	17.2	0.0315	mg/L	0.04543	0.0315	mg/L	0.04543	144.18%
Al RADIAL†	54.7	0.0161	mg/L	0.00203	0.0161	mg/L	0.00203	12.63%
Fe RADIAL†	3.9	0.0268	mg/L	0.00544	0.0268	mg/L	0.00544	20.31%
Ca RADIAL†	201.4	0.0576	mg/L	0.00705	0.0576	mg/L	0.00705	12.23%
K RADIAL†	-27.8	-0.0136	mg/L	0.01223	-0.0136	mg/L	0.01223	90.00%
Mg RADIAL†	2.4	0.0158	mg/L	0.02899	0.0158	mg/L	0.02899	182.97%
Na RADIAL†	-427.2	-0.0164	mg/L	0.03040	-0.0164	mg/L	0.03040	185.24%

Sequence No.: 99
Sample ID: BJ20719-SRM1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 10/16/2012 2:37:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20719-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17884530.1	4.897	mg/L	0.0061				0.12%
Y RADIAL	342369.7	5.076	mg/L	0.0407				0.80%
As 188.979†	6234.8	1.598	mg/L	0.0227	1.598	mg/L	0.0227	1.42%
Tl 190.801†	8169.4	2.000	mg/L	0.0218	2.000	mg/L	0.0218	1.09%
Se 196.026†	2421.6	1.228	mg/L	0.0247	1.228	mg/L	0.0247	2.01%
Zn 206.200†	272221.6	2.479	mg/L	0.0103	2.479	mg/L	0.0103	0.42%
Sb 206.836†	4480.1	0.9675	mg/L	0.00430	0.9675	mg/L	0.00430	0.44%
Pb 220.353†	7349.7	0.7110	mg/L	0.00351	0.7110	mg/L	0.00351	0.49%
Cd 226.502†	201397.9	0.9261	mg/L	0.00389	0.9261	mg/L	0.00389	0.42%
Co 228.616†	51391.7	1.260	mg/L	0.0096	1.260	mg/L	0.0096	0.76%
Ni 232.003†	16278.9	0.7489	mg/L	0.00546	0.7489	mg/L	0.00546	0.73%
Ba 233.527†	325545.6	1.927	mg/L	0.0062	1.927	mg/L	0.0062	0.32%
Mn 257.610†	2995790.1	3.199	mg/L	0.0094	3.199	mg/L	0.0094	0.29%
Cr 267.716†	164504.5	1.051	mg/L	0.0034	1.051	mg/L	0.0034	0.32%
Fe 273.955†	2688655.0	106.3	mg/L	0.22	106.3	mg/L	0.22	0.21%
Mg 279.077†	537035.5	23.62	mg/L	0.078	23.62	mg/L	0.078	0.33%
V 292.402†	299804.2	0.7723	mg/L	0.00227	0.7723	mg/L	0.00227	0.29%
Al 308.215†	2531309.4	64.71	mg/L	0.156	64.71	mg/L	0.156	0.24%
Be 313.107†	5280816.8	1.027	mg/L	0.0065	1.027	mg/L	0.0065	0.63%
Cu 324.752†	457742.1	1.119	mg/L	0.0057	1.119	mg/L	0.0057	0.51%
Ag 338.289†	96929.2	0.3938	mg/L	0.00114	0.3938	mg/L	0.00114	0.29%
Na 330.237†	-1239.9	-0.2222	mg/L	0.03511	-0.2222	mg/L	0.03511	15.80%
Ca 227.546†	31278.0	57.52	mg/L	0.676	57.52	mg/L	0.676	1.17%
Al RADIAL†	215735.4	63.42	mg/L	0.071	63.42	mg/L	0.071	0.11%
Fe RADIAL†	16134.2	110.4	mg/L	0.66	110.4	mg/L	0.66	0.60%
Ca RADIAL†	220540.1	63.11	mg/L	0.273	63.11	mg/L	0.273	0.43%
K RADIAL†	52841.6	25.80	mg/L	0.042	25.80	mg/L	0.042	0.16%
Mg RADIAL†	3489.0	23.51	mg/L	0.147	23.51	mg/L	0.147	0.62%
Na RADIAL†	86796.1	3.334	mg/L	0.0201	3.334	mg/L	0.0201	0.60%

Sequence No.: 100
Sample ID: 12J0498-07
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 10/16/2012 2:45:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0498-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17704388.5	4.848	mg/L	0.0445				0.92%
Y RADIAL	340013.7	5.041	mg/L	0.0556				1.10%
As 188.979†	146.0	0.0487	mg/L	0.00278	0.0487	mg/L	0.00278	5.71%
Tl 190.801†	-132.2	-0.0254	mg/L	0.00225	-0.0254	mg/L	0.00225	8.86%
Se 196.026†	-84.2	0.0157	mg/L	0.00242	0.0157	mg/L	0.00242	15.44%
Zn 206.200†	151704.9	1.380	mg/L	0.0118	1.380	mg/L	0.0118	0.86%
Sb 206.836†	-37.8	-0.0088	mg/L	0.00122	-0.0088	mg/L	0.00122	13.86%
Pb 220.353†	7428.5	0.7205	mg/L	0.00532	0.7205	mg/L	0.00532	0.74%
Cd 226.502†	2187.2	-0.0047	mg/L	0.00034	-0.0047	mg/L	0.00034	7.21%
Co 228.616†	1460.2	0.0358	mg/L	0.00043	0.0358	mg/L	0.00043	1.21%
Ni 232.003†	2920.1	0.1442	mg/L	0.00208	0.1442	mg/L	0.00208	1.44%
Ba 233.527†	129812.3	0.7683	mg/L	0.00726	0.7683	mg/L	0.00726	0.95%
Mn 257.610†	1196832.6	1.280	mg/L	0.0142	1.280	mg/L	0.0142	1.11%
Cr 267.716†	22508.7	0.1437	mg/L	0.00153	0.1437	mg/L	0.00153	1.06%
Fe 273.955†	2006063.6	79.34	mg/L	0.986	79.34	mg/L	0.986	1.24%
Mg 279.077†	1009014.8	44.38	mg/L	0.550	44.38	mg/L	0.550	1.24%
V 292.402†	65061.8	0.1630	mg/L	0.00147	0.1630	mg/L	0.00147	0.90%
Al 308.215†	1644734.9	42.05	mg/L	0.515	42.05	mg/L	0.515	1.22%
Be 313.107†	23735.6	0.0046	mg/L	0.00025	0.0046	mg/L	0.00025	5.49%
Cu 324.752†	95726.6	0.2345	mg/L	0.00296	0.2345	mg/L	0.00296	1.26%
Ag 338.289†	-3738.4	-0.0161	mg/L	0.00045	-0.0161	mg/L	0.00045	2.79%

Na 330.237†	-3638.7	-1.931 mg/L	0.0696	-1.931 mg/L	0.0696	3.61%
Ca 227.546†	47818.0	87.52 mg/L	0.827	87.52 mg/L	0.827	0.95%
Al RADIAL†	139732.4	41.08 mg/L	0.235	41.08 mg/L	0.235	0.57%
Fe RADIAL†	11731.5	80.27 mg/L	0.837	80.27 mg/L	0.837	1.04%
Ca RADIAL†	323187.3	92.48 mg/L	0.212	92.48 mg/L	0.212	0.23%
K RADIAL†	9991.6	4.879 mg/L	0.0916	4.879 mg/L	0.0916	1.88%
Mg RADIAL†	6407.7	43.18 mg/L	0.478	43.18 mg/L	0.478	1.11%
Na RADIAL†	21494.4	0.8256 mg/L	0.03911	0.8256 mg/L	0.03911	4.74%

Sequence No.: 101
Sample ID: 12J0484-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 10/16/2012 2:50:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0484-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18522072.4	5.072	mg/L	0.0439				0.87%
Y RADIAL	351704.5	5.215	mg/L	0.0461				0.88%
As 188.979†	14.8	0.0106	mg/L	0.00257	0.0106	mg/L	0.00257	24.16%
Tl 190.801†	-63.2	-0.0115	mg/L	0.00286	-0.0115	mg/L	0.00286	24.93%
Se 196.026†	-51.5	0.0083	mg/L	0.00113	0.0083	mg/L	0.00113	13.56%
Zn 206.200†	70407.4	0.6402	mg/L	0.00386	0.6402	mg/L	0.00386	0.60%
Sb 206.836†	3.5	0.0005	mg/L	0.00069	0.0005	mg/L	0.00069	150.69%
Pb 220.353†	986.3	0.0923	mg/L	0.00068	0.0923	mg/L	0.00068	0.73%
Cd 226.502†	1447.4	-0.0020	mg/L	0.00021	-0.0020	mg/L	0.00021	10.24%
Co 228.616†	725.6	0.0178	mg/L	0.00046	0.0178	mg/L	0.00046	2.59%
Ni 232.003†	2858.5	0.1361	mg/L	0.00186	0.1361	mg/L	0.00186	1.37%
Ba 233.527†	19373.3	0.1147	mg/L	0.00041	0.1147	mg/L	0.00041	0.36%
Mn 257.610†	351771.3	0.3773	mg/L	0.00157	0.3773	mg/L	0.00157	0.42%
Cr 267.716†	90340.8	0.5769	mg/L	0.00343	0.5769	mg/L	0.00343	0.59%
Fe 273.955†	1182836.5	46.78	mg/L	0.226	46.78	mg/L	0.226	0.48%
Mg 279.077†	314548.5	13.84	mg/L	0.092	13.84	mg/L	0.092	0.67%
V 292.402†	38232.3	0.0958	mg/L	0.00024	0.0958	mg/L	0.00024	0.25%
Al 308.215†	761569.1	19.47	mg/L	0.058	19.47	mg/L	0.058	0.30%
Be 313.107†	4241.1	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.46%
Cu 324.752†	91172.8	0.2238	mg/L	0.00012	0.2238	mg/L	0.00012	0.06%
Ag 338.289†	2098.6	0.0083	mg/L	0.00004	0.0083	mg/L	0.00004	0.48%
Na 330.237†	-1747.8	-0.9206	mg/L	0.06711	-0.9206	mg/L	0.06711	7.29%
Ca 227.546†	11654.6	21.47	mg/L	0.209	21.47	mg/L	0.209	0.97%
Al RADIAL†	65706.2	19.32	mg/L	0.041	19.32	mg/L	0.041	0.21%
Fe RADIAL†	6901.2	47.22	mg/L	0.391	47.22	mg/L	0.391	0.83%
Ca RADIAL†	82972.8	23.74	mg/L	0.112	23.74	mg/L	0.112	0.47%
K RADIAL†	3919.2	1.914	mg/L	0.0158	1.914	mg/L	0.0158	0.83%
Mg RADIAL†	2004.5	13.51	mg/L	0.104	13.51	mg/L	0.104	0.77%
Na RADIAL†	15644.3	0.6009	mg/L	0.03413	0.6009	mg/L	0.03413	5.68%

Sequence No.: 102
Sample ID: 12J0486-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 10/16/2012 2:55:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0486-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17833458.0	4.883	mg/L	0.0137				0.28%
Y RADIAL	340075.8	5.042	mg/L	0.0332				0.66%
As 188.979†	41.3	0.0294	mg/L	0.00283	0.0294	mg/L	0.00283	9.60%
Tl 190.801†	-170.2	-0.0305	mg/L	0.00204	-0.0305	mg/L	0.00204	6.71%
Se 196.026†	-137.8	0.0250	mg/L	0.00451	0.0250	mg/L	0.00451	18.05%
Zn 206.200†	57506.4	0.5175	mg/L	0.00255	0.5175	mg/L	0.00255	0.49%
Sb 206.836†	-39.2	-0.0095	mg/L	0.00092	-0.0095	mg/L	0.00092	9.65%
Pb 220.353†	7067.4	0.6808	mg/L	0.00490	0.6808	mg/L	0.00490	0.72%
Cd 226.502†	3172.2	-0.0094	mg/L	0.00008	-0.0094	mg/L	0.00008	0.81%
Co 228.616†	2119.1	0.0520	mg/L	0.00044	0.0520	mg/L	0.00044	0.84%
Ni 232.003†	3447.6	0.1760	mg/L	0.00065	0.1760	mg/L	0.00065	0.37%

Ba 233.527†	86967.9	0.5147 mg/L	0.00292	0.5147 mg/L	0.00292	0.57%
Mn 257.610†	2936764.1	3.138 mg/L	0.0226	3.138 mg/L	0.0226	0.72%
Cr 267.716†	21167.3	0.1352 mg/L	0.00042	0.1352 mg/L	0.00042	0.31%
Fe 273.955†	3259115.2	128.9 mg/L	0.99	128.9 mg/L	0.99	0.77%
Mg 279.077†	620598.3	27.30 mg/L	0.221	27.30 mg/L	0.221	0.81%
V 292.402†	76457.6	0.1887 mg/L	0.00228	0.1887 mg/L	0.00228	1.21%
Al 308.215†	2689754.6	68.76 mg/L	0.416	68.76 mg/L	0.416	0.61%
Be 313.107†	18686.1	0.0036 mg/L	0.00016	0.0036 mg/L	0.00016	4.29%
Cu 324.752†	86247.6	0.2145 mg/L	0.00164	0.2145 mg/L	0.00164	0.76%
Ag 338.289†	-5138.1	-0.0214 mg/L	0.00015	-0.0214 mg/L	0.00015	0.68%
Na 330.237†	-1207.0	-0.1009 mg/L	0.01721	-0.1009 mg/L	0.01721	17.07%
Ca 227.546†	27434.9	50.63 mg/L	0.409	50.63 mg/L	0.409	0.81%
Al RADIAL†	228604.2	67.20 mg/L	0.161	67.20 mg/L	0.161	0.24%
Fe RADIAL†	19329.0	132.3 mg/L	0.62	132.3 mg/L	0.62	0.47%
Ca RADIAL†	200129.9	57.27 mg/L	0.119	57.27 mg/L	0.119	0.21%
K RADIAL†	23307.1	11.38 mg/L	0.021	11.38 mg/L	0.021	0.19%
Mg RADIAL†	3971.1	26.76 mg/L	0.188	26.76 mg/L	0.188	0.70%
Na RADIAL†	55831.1	2.144 mg/L	0.0201	2.144 mg/L	0.0201	0.94%

Sequence No.: 103
Sample ID: 12J0486-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 10/16/2012 3:00:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0486-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17582589.1	4.814	mg/L	0.0376				0.78%
Y RADIAL	336178.5	4.985	mg/L	0.0275				0.55%
As 188.979†	188.2	0.0692	mg/L	0.00218	0.0692	mg/L	0.00218	3.15%
Tl 190.801†	-204.9	-0.0376	mg/L	0.00208	-0.0376	mg/L	0.00208	5.54%
Se 196.026†	-138.8	0.0365	mg/L	0.00742	0.0365	mg/L	0.00742	20.34%
Zn 206.200†	125435.9	1.137	mg/L	0.0101	1.137	mg/L	0.0101	0.89%
Sb 206.836†	29.2	0.0053	mg/L	0.00189	0.0053	mg/L	0.00189	35.56%
Pb 220.353†	42478.1	4.139	mg/L	0.0321	4.139	mg/L	0.0321	0.78%
Cd 226.502†	4181.2	-0.0079	mg/L	0.00029	-0.0079	mg/L	0.00029	3.63%
Co 228.616†	2626.6	0.0644	mg/L	0.00047	0.0644	mg/L	0.00047	0.73%
Ni 232.003†	4894.6	0.2438	mg/L	0.00125	0.2438	mg/L	0.00125	0.51%
Ba 233.527†	219927.9	1.302	mg/L	0.0134	1.302	mg/L	0.0134	1.03%
Mn 257.610†	3143511.2	3.359	mg/L	0.0377	3.359	mg/L	0.0377	1.12%
Cr 267.716†	29284.3	0.1870	mg/L	0.00155	0.1870	mg/L	0.00155	0.83%
Fe 273.955†	3689934.7	145.9	mg/L	1.77	145.9	mg/L	1.77	1.22%
Mg 279.077†	656261.9	28.87	mg/L	0.309	28.87	mg/L	0.309	1.07%
V 292.402†	105337.8	0.2625	mg/L	0.00561	0.2625	mg/L	0.00561	2.14%
Al 308.215†	2629086.7	67.21	mg/L	0.599	67.21	mg/L	0.599	0.89%
Be 313.107†	16035.8	0.0031	mg/L	0.00024	0.0031	mg/L	0.00024	7.70%
Cu 324.752†	139253.7	0.3437	mg/L	0.00503	0.3437	mg/L	0.00503	1.46%
Ag 338.289†	-6154.8	-0.0260	mg/L	0.00048	-0.0260	mg/L	0.00048	1.83%
Na 330.237†	-1818.0	-0.3612	mg/L	0.01964	-0.3612	mg/L	0.01964	5.44%
Ca 227.546†	50817.5	93.31	mg/L	0.890	93.31	mg/L	0.890	0.95%
Al RADIAL†	224524.9	66.00	mg/L	0.167	66.00	mg/L	0.167	0.25%
Fe RADIAL†	22319.3	152.7	mg/L	0.74	152.7	mg/L	0.74	0.49%
Ca RADIAL†	359812.8	103.0	mg/L	0.20	103.0	mg/L	0.20	0.20%
K RADIAL†	28928.3	14.13	mg/L	0.134	14.13	mg/L	0.134	0.95%
Mg RADIAL†	4162.9	28.05	mg/L	0.219	28.05	mg/L	0.219	0.78%
Na RADIAL†	71422.0	2.743	mg/L	0.0259	2.743	mg/L	0.0259	0.95%

Sequence No.: 104
Sample ID: 12J0487-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 86
Date Collected: 10/16/2012 3:05:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0487-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18843731.3	5.160	mg/L	0.0446				0.86%

Y RADIAL	347053.1	5.146 mg/L	0.0433			0.84%
As 188.979†	29.6	0.0101 mg/L	0.00220	0.0101 mg/L	0.00220	21.84%
Tl 190.801†	-18.9	-0.0032 mg/L	0.00138	-0.0032 mg/L	0.00138	43.74%
Se 196.026†	-5.3	0.0098 mg/L	0.00406	0.0098 mg/L	0.00406	41.52%
Zn 206.200†	3956.0	0.0352 mg/L	0.00037	0.0352 mg/L	0.00037	1.04%
Sb 206.836†	-15.4	-0.0034 mg/L	0.00053	-0.0034 mg/L	0.00053	15.51%
Pb 220.353†	248.6	0.0225 mg/L	0.00115	0.0225 mg/L	0.00115	5.09%
Cd 226.502†	465.8	-0.0011 mg/L	0.00005	-0.0011 mg/L	0.00005	4.71%
Co 228.616†	182.5	0.0045 mg/L	0.00012	0.0045 mg/L	0.00012	2.69%
Ni 232.003†	237.4	0.0135 mg/L	0.00059	0.0135 mg/L	0.00059	4.38%
Ba 233.527†	4462.0	0.0264 mg/L	0.00020	0.0264 mg/L	0.00020	0.74%
Mn 257.610†	556206.6	0.5940 mg/L	0.00546	0.5940 mg/L	0.00546	0.92%
Cr 267.716†	2383.1	0.0152 mg/L	0.00022	0.0152 mg/L	0.00022	1.48%
Fe 273.955†	441852.1	17.47 mg/L	0.152	17.47 mg/L	0.152	0.87%
Mg 279.077†	16826.0	0.7409 mg/L	0.00922	0.7409 mg/L	0.00922	1.24%
V 292.402†	8882.0	0.0217 mg/L	0.00042	0.0217 mg/L	0.00042	1.95%
Al 308.215†	207939.9	5.317 mg/L	0.0778	5.317 mg/L	0.0778	1.46%
Be 313.107†	2503.0	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	10.02%
Cu 324.752†	5364.3	0.0139 mg/L	0.00023	0.0139 mg/L	0.00023	1.67%
Ag 338.289†	-779.8	-0.0032 mg/L	0.00020	-0.0032 mg/L	0.00020	6.36%
Na 330.237†	-380.5	-0.1721 mg/L	0.02749	-0.1721 mg/L	0.02749	15.97%
Ca 227.546†	210.7	0.4688 mg/L	0.04506	0.4688 mg/L	0.04506	9.61%
Al RADIAL†	18504.1	5.440 mg/L	0.0204	5.440 mg/L	0.0204	0.37%
Fe RADIAL†	2570.0	17.58 mg/L	0.125	17.58 mg/L	0.125	0.71%
Ca RADIAL†	4517.2	1.293 mg/L	0.0092	1.293 mg/L	0.0092	0.71%
K RADIAL†	991.3	0.4841 mg/L	0.01042	0.4841 mg/L	0.01042	2.15%
Mg RADIAL†	108.1	0.7289 mg/L	0.03788	0.7289 mg/L	0.03788	5.20%
Na RADIAL†	8118.1	0.3118 mg/L	0.02513	0.3118 mg/L	0.02513	8.06%

Sequence No.: 105
Sample ID: BJ20719-DUP1
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 87
Date Collected: 10/16/2012 3:10:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20719-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18704295.1	5.122	mg/L	0.0074				0.15%
Y RADIAL	348616.9	5.169	mg/L	0.1009				1.95%
As 188.979†	27.3	0.0095	mg/L	0.00244	0.0095	mg/L	0.00244	25.67%
Tl 190.801†	-21.3	-0.0037	mg/L	0.00138	-0.0037	mg/L	0.00138	36.98%
Se 196.026†	-3.2	0.0108	mg/L	0.00252	0.0108	mg/L	0.00252	23.31%
Zn 206.200†	3974.4	0.0353	mg/L	0.00007	0.0353	mg/L	0.00007	0.21%
Sb 206.836†	-16.1	-0.0036	mg/L	0.00049	-0.0036	mg/L	0.00049	13.76%
Pb 220.353†	244.2	0.0221	mg/L	0.00188	0.0221	mg/L	0.00188	8.52%
Cd 226.502†	447.9	-0.0012	mg/L	0.00007	-0.0012	mg/L	0.00007	5.80%
Co 228.616†	185.8	0.0046	mg/L	0.00011	0.0046	mg/L	0.00011	2.37%
Ni 232.003†	225.0	0.0130	mg/L	0.00053	0.0130	mg/L	0.00053	4.08%
Ba 233.527†	4444.2	0.0263	mg/L	0.00013	0.0263	mg/L	0.00013	0.51%
Mn 257.610†	560195.4	0.5982	mg/L	0.00274	0.5982	mg/L	0.00274	0.46%
Cr 267.716†	2444.7	0.0156	mg/L	0.00005	0.0156	mg/L	0.00005	0.34%
Fe 273.955†	444804.8	17.59	mg/L	0.078	17.59	mg/L	0.078	0.44%
Mg 279.077†	16832.7	0.7412	mg/L	0.00301	0.7412	mg/L	0.00301	0.41%
V 292.402†	8889.3	0.0217	mg/L	0.00024	0.0217	mg/L	0.00024	1.11%
Al 308.215†	207919.1	5.316	mg/L	0.0222	5.316	mg/L	0.0222	0.42%
Be 313.107†	2429.4	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.39%
Cu 324.752†	5367.1	0.0139	mg/L	0.00013	0.0139	mg/L	0.00013	0.93%
Ag 338.289†	-768.9	-0.0031	mg/L	0.00022	-0.0031	mg/L	0.00022	7.05%
Na 330.237†	-422.7	-0.2002	mg/L	0.05936	-0.2002	mg/L	0.05936	29.64%
Ca 227.546†	185.2	0.4228	mg/L	0.02689	0.4228	mg/L	0.02689	6.36%
Al RADIAL†	18370.1	5.400	mg/L	0.0663	5.400	mg/L	0.0663	1.23%
Fe RADIAL†	2567.3	17.57	mg/L	0.390	17.57	mg/L	0.390	2.22%
Ca RADIAL†	4411.7	1.262	mg/L	0.0299	1.262	mg/L	0.0299	2.37%
K RADIAL†	964.5	0.4710	mg/L	0.01738	0.4710	mg/L	0.01738	3.69%
Mg RADIAL†	107.2	0.7225	mg/L	0.03549	0.7225	mg/L	0.03549	4.91%
Na RADIAL†	6822.2	0.2620	mg/L	0.08107	0.2620	mg/L	0.08107	30.94%

Sequence No.: 106

Autosampler Location: 88

Sample ID: BJ20719-MS1
Analyst: MW
Initial Sample Wt:
Dilution:

Date Collected: 10/16/2012 3:15:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BJ20719-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18389197.8	5.035	mg/L	0.0091				0.18%
Y RADIAL	338778.5	5.023	mg/L	0.0684				1.36%
As 188.979†	7870.3	2.001	mg/L	0.0016	2.001	mg/L	0.0016	0.08%
Tl 190.801†	9151.1	2.232	mg/L	0.0058	2.232	mg/L	0.0058	0.26%
Se 196.026†	4197.1	2.012	mg/L	0.0031	2.012	mg/L	0.0031	0.16%
Zn 206.200†	58805.5	0.5359	mg/L	0.00574	0.5359	mg/L	0.00574	1.07%
Sb 206.836†	1254.3	0.2710	mg/L	0.00141	0.2710	mg/L	0.00141	0.52%
Pb 220.353†	5608.1	0.5463	mg/L	0.00189	0.5463	mg/L	0.00189	0.35%
Cd 226.502†	11401.4	0.0501	mg/L	0.00019	0.0501	mg/L	0.00019	0.38%
Co 228.616†	22259.6	0.5459	mg/L	0.00140	0.5459	mg/L	0.00140	0.26%
Ni 232.003†	12023.5	0.5433	mg/L	0.00116	0.5433	mg/L	0.00116	0.21%
Ba 233.527†	370127.1	2.191	mg/L	0.0211	2.191	mg/L	0.0211	0.96%
Mn 257.610†	1049255.7	1.120	mg/L	0.0100	1.120	mg/L	0.0100	0.89%
Cr 267.716†	35330.9	0.2256	mg/L	0.00050	0.2256	mg/L	0.00050	0.22%
Fe 273.955†	462988.2	18.31	mg/L	0.187	18.31	mg/L	0.187	1.02%
Mg 279.077†	17421.0	0.7671	mg/L	0.00154	0.7671	mg/L	0.00154	0.20%
V 292.402†	201224.3	0.5226	mg/L	0.00488	0.5226	mg/L	0.00488	0.93%
Al 308.215†	283062.9	7.237	mg/L	0.0781	7.237	mg/L	0.0781	1.08%
Be 313.107†	270776.9	0.0527	mg/L	0.00069	0.0527	mg/L	0.00069	1.31%
Cu 324.752†	111119.2	0.2718	mg/L	0.00253	0.2718	mg/L	0.00253	0.93%
Ag 338.289†	11704.6	0.0476	mg/L	0.00027	0.0476	mg/L	0.00027	0.56%
Na 330.237†	-904.2	-0.5235	mg/L	0.00693	-0.5235	mg/L	0.00693	1.32%
Ca 227.546†	231.8	0.5122	mg/L	0.00665	0.5122	mg/L	0.00665	1.30%
Al RADIAL†	25378.4	7.460	mg/L	0.0642	7.460	mg/L	0.0642	0.86%
Fe RADIAL†	2732.4	18.70	mg/L	0.264	18.70	mg/L	0.264	1.41%
Ca RADIAL†	4238.2	1.213	mg/L	0.0059	1.213	mg/L	0.0059	0.49%
K RADIAL†	953.1	0.4654	mg/L	0.02162	0.4654	mg/L	0.02162	4.65%
Mg RADIAL†	105.6	0.7118	mg/L	0.04103	0.7118	mg/L	0.04103	5.76%
Na RADIAL†	6339.4	0.2435	mg/L	0.03617	0.2435	mg/L	0.03617	14.86%

Sequence No.: 107
Sample ID: CCV-9
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/16/2012 3:24:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-9

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17778871.9	4.868	mg/L	0.0507				1.04%
Y RADIAL	332600.5	4.931	mg/L	0.1036				2.10%
As 188.979†	934.4	0.2379	mg/L	0.00243	0.2379	mg/L	0.00243	1.02%
Tl 190.801†	997.4	0.2436	mg/L	0.00427	0.2436	mg/L	0.00427	1.75%
Se 196.026†	512.5	0.2477	mg/L	0.00161	0.2477	mg/L	0.00161	0.65%
Zn 206.200†	274848.7	2.509	mg/L	0.0268	2.509	mg/L	0.0268	1.07%
Sb 206.836†	1158.2	0.2502	mg/L	0.00573	0.2502	mg/L	0.00573	2.29%
Pb 220.353†	2591.7	0.2538	mg/L	0.00159	0.2538	mg/L	0.00159	0.63%
Cd 226.502†	26249.0	0.1224	mg/L	0.00075	0.1224	mg/L	0.00075	0.62%
Co 228.616†	102671.7	2.518	mg/L	0.0339	2.518	mg/L	0.0339	1.35%
Ni 232.003†	54856.3	2.466	mg/L	0.0291	2.466	mg/L	0.0291	1.18%
Ba 233.527†	1710458.7	10.12	mg/L	0.182	10.12	mg/L	0.182	1.80%
Mn 257.610†	2345037.8	2.500	mg/L	0.0435	2.500	mg/L	0.0435	1.74%
Cr 267.716†	155895.3	0.9955	mg/L	0.00873	0.9955	mg/L	0.00873	0.88%
Fe 273.955†	127146.8	5.028	mg/L	0.0546	5.028	mg/L	0.0546	1.09%
Mg 279.077†	560286.6	24.64	mg/L	0.465	24.64	mg/L	0.465	1.89%
V 292.402†	943720.9	2.458	mg/L	0.0427	2.458	mg/L	0.0427	1.74%
Al 308.215†	375000.0	9.585	mg/L	0.1735	9.585	mg/L	0.1735	1.81%
Be 313.107†	1283413.3	0.2496	mg/L	0.00435	0.2496	mg/L	0.00435	1.74%
Cu 324.752†	495711.3	1.208	mg/L	0.0205	1.208	mg/L	0.0205	1.70%
Ag 338.289†	299342.7	1.218	mg/L	0.0082	1.218	mg/L	0.0082	0.67%
Na 330.237†	33434.5	22.77	mg/L	0.334	22.77	mg/L	0.334	1.47%

Ca 227.546†	13279.1	24.22 mg/L	0.218	24.22 mg/L	0.218	0.90%
Al RADIAL†	32894.1	9.670 mg/L	0.0404	9.670 mg/L	0.0404	0.42%
Fe RADIAL†	717.0	4.906 mg/L	0.1134	4.906 mg/L	0.1134	2.31%
Ca RADIAL†	85961.8	24.60 mg/L	0.185	24.60 mg/L	0.185	0.75%
K RADIAL†	9713.0	4.743 mg/L	0.0275	4.743 mg/L	0.0275	0.58%
Mg RADIAL†	3647.2	24.58 mg/L	0.455	24.58 mg/L	0.455	1.85%
Na RADIAL†	641489.9	24.64 mg/L	0.109	24.64 mg/L	0.109	0.44%

Sequence No.: 108
Sample ID: CCB-9
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/16/2012 3:33:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-9

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18421410.8	5.044	mg/L	0.0097				0.19%
Y RADIAL	335778.1	4.979	mg/L	0.0113				0.23%
As 188.979†	-3.2	-0.0008	mg/L	0.00306	-0.0008	mg/L	0.00306	376.11%
Tl 190.801†	5.2	0.0013	mg/L	0.00147	0.0013	mg/L	0.00147	115.81%
Se 196.026†	-2.6	-0.0012	mg/L	0.00339	-0.0012	mg/L	0.00339	275.05%
Zn 206.200†	19.0	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	43.00%
Sb 206.836†	-3.9	-0.0009	mg/L	0.00175	-0.0009	mg/L	0.00175	205.66%
Pb 220.353†	-3.7	-0.0004	mg/L	0.00135	-0.0004	mg/L	0.00135	375.23%
Cd 226.502†	18.1	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	59.22%
Co 228.616†	26.3	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	24.59%
Ni 232.003†	-2.3	-0.0001	mg/L	0.00037	-0.0001	mg/L	0.00037	353.01%
Ba 233.527†	230.8	0.0014	mg/L	0.00029	0.0014	mg/L	0.00029	21.30%
Mn 257.610†	345.8	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	22.63%
Cr 267.716†	13.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.06%
Fe 273.955†	46.5	0.0018	mg/L	0.00057	0.0018	mg/L	0.00057	30.90%
Mg 279.077†	72.1	0.0032	mg/L	0.00077	0.0032	mg/L	0.00077	24.37%
V 292.402†	164.6	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	11.04%
Al 308.215†	-102.2	-0.0026	mg/L	0.00172	-0.0026	mg/L	0.00172	65.77%
Be 313.107†	896.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	25.91%
Cu 324.752†	2.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	931.33%
Ag 338.289†	954.7	0.0039	mg/L	0.00023	0.0039	mg/L	0.00023	5.84%
Na 330.237†	-79.5	-0.0540	mg/L	0.03201	-0.0540	mg/L	0.03201	59.32%
Ca 227.546†	-3.7	-0.0068	mg/L	0.02629	-0.0068	mg/L	0.02629	386.25%
Al RADIAL†	20.9	0.0061	mg/L	0.00562	0.0061	mg/L	0.00562	91.51%
Fe RADIAL†	-0.1	-0.0004	mg/L	0.00316	-0.0004	mg/L	0.00316	741.28%
Ca RADIAL†	84.7	0.0242	mg/L	0.00128	0.0242	mg/L	0.00128	5.30%
K RADIAL†	-11.5	-0.0056	mg/L	0.00884	-0.0056	mg/L	0.00884	157.32%
Mg RADIAL†	2.3	0.0154	mg/L	0.01876	0.0154	mg/L	0.01876	121.86%
Na RADIAL†	-1691.1	-0.0650	mg/L	0.02412	-0.0650	mg/L	0.02412	37.14%

Sequence No.: 109
Sample ID: 12J0488-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 89
Date Collected: 10/16/2012 3:38:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17870731.6	4.893	mg/L	0.0143				0.29%
Y RADIAL	342661.9	5.081	mg/L	0.0130				0.26%
As 188.979†	129.4	0.0727	mg/L	0.00307	0.0727	mg/L	0.00307	4.22%
Tl 190.801†	-86.4	0.0022	mg/L	0.00309	0.0022	mg/L	0.00309	143.07%
Se 196.026†	-296.8	0.0491	mg/L	0.00553	0.0491	mg/L	0.00553	11.27%
Zn 206.200†	76299.9	0.6807	mg/L	0.00809	0.6807	mg/L	0.00809	1.19%
Sb 206.836†	-35.6	-0.0099	mg/L	0.00463	-0.0099	mg/L	0.00463	46.77%
Pb 220.353†	25423.9	2.463	mg/L	0.0107	2.463	mg/L	0.0107	0.43%
Cd 226.502†	6902.4	-0.0187	mg/L	0.00014	-0.0187	mg/L	0.00014	0.77%
Co 228.616†	4872.4	0.1195	mg/L	0.00035	0.1195	mg/L	0.00035	0.29%
Ni 232.003†	8682.8	0.4344	mg/L	0.00051	0.4344	mg/L	0.00051	0.12%
Ba 233.527†	169177.9	1.001	mg/L	0.0064	1.001	mg/L	0.0064	0.64%

Mn 257.610†	10038241.9	10.72	mg/L	0.056	10.72	mg/L	0.056	0.53%
Cr 267.716†	24747.1	0.1580	mg/L	0.00089	0.1580	mg/L	0.00089	0.56%
Fe 273.955†	6850798.7	270.9	mg/L	1.27	270.9	mg/L	1.27	0.47%
Mg 279.077†	929985.9	40.92	mg/L	0.172	40.92	mg/L	0.172	0.42%
V 292.402†	95449.4	0.2267	mg/L	0.00227	0.2267	mg/L	0.00227	1.00%
Al 308.215†	5781404.5	147.8	mg/L	1.15	147.8	mg/L	1.15	0.77%
Be 313.107†	31508.2	0.0061	mg/L	0.00008	0.0061	mg/L	0.00008	1.23%
Cu 324.752†	43350.0	0.1166	mg/L	0.00046	0.1166	mg/L	0.00046	0.39%
Ag 338.289†	-2292.1	-0.0093	mg/L	0.00118	-0.0093	mg/L	0.00118	12.66%
Na 330.237†	-2063.1	-0.0639	mg/L	0.02275	-0.0639	mg/L	0.02275	35.59%
Ca 227.546†	1180.7	3.506	mg/L	0.0323	3.506	mg/L	0.0323	0.92%
Al RADIAL†	493581.6	145.1	mg/L	0.43	145.1	mg/L	0.43	0.29%
Fe RADIAL†	43557.6	298.0	mg/L	1.49	298.0	mg/L	1.49	0.50%
Ca RADIAL†	58306.1	16.68	mg/L	0.026	16.68	mg/L	0.026	0.15%
K RADIAL†	13595.3	6.639	mg/L	0.0783	6.639	mg/L	0.0783	1.18%
Mg RADIAL†	6133.1	41.33	mg/L	0.049	41.33	mg/L	0.049	0.12%
Na RADIAL†	17813.0	0.6842	mg/L	0.01908	0.6842	mg/L	0.01908	2.79%

Sequence No.: 110
Sample ID: 12J0488-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 10/16/2012 3:43:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17957587.3	4.917	mg/L	0.0066				0.13%
Y RADIAL	343578.2	5.094	mg/L	0.1309				2.57%
As 188.979†	122.5	0.0658	mg/L	0.00056	0.0658	mg/L	0.00056	0.84%
Tl 190.801†	-111.4	-0.0068	mg/L	0.00400	-0.0068	mg/L	0.00400	58.69%
Se 196.026†	-243.5	0.0498	mg/L	0.00745	0.0498	mg/L	0.00745	14.96%
Zn 206.200†	73209.6	0.6543	mg/L	0.00160	0.6543	mg/L	0.00160	0.24%
Sb 206.836†	-81.7	-0.0198	mg/L	0.00251	-0.0198	mg/L	0.00251	12.68%
Pb 220.353†	2297.9	0.2071	mg/L	0.00288	0.2071	mg/L	0.00288	1.39%
Cd 226.502†	5858.1	-0.0170	mg/L	0.00076	-0.0170	mg/L	0.00076	4.48%
Co 228.616†	3719.6	0.0912	mg/L	0.00035	0.0912	mg/L	0.00035	0.38%
Ni 232.003†	6229.3	0.3185	mg/L	0.00238	0.3185	mg/L	0.00238	0.75%
Ba 233.527†	113486.9	0.6717	mg/L	0.00097	0.6717	mg/L	0.00097	0.14%
Mn 257.610†	5097632.7	5.447	mg/L	0.0361	5.447	mg/L	0.0361	0.66%
Cr 267.716†	23580.4	0.1506	mg/L	0.00062	0.1506	mg/L	0.00062	0.41%
Fe 273.955†	5965125.7	235.9	mg/L	1.97	235.9	mg/L	1.97	0.83%
Mg 279.077†	920102.4	40.48	mg/L	0.341	40.48	mg/L	0.341	0.84%
V 292.402†	87338.0	0.2084	mg/L	0.00077	0.2084	mg/L	0.00077	0.37%
Al 308.215†	5528998.4	141.3	mg/L	0.79	141.3	mg/L	0.79	0.56%
Be 313.107†	29475.0	0.0057	mg/L	0.00003	0.0057	mg/L	0.00003	0.45%
Cu 324.752†	56327.8	0.1465	mg/L	0.00055	0.1465	mg/L	0.00055	0.37%
Ag 338.289†	-2395.8	-0.0098	mg/L	0.00029	-0.0098	mg/L	0.00029	2.95%
Na 330.237†	-1920.4	-0.1316	mg/L	0.01696	-0.1316	mg/L	0.01696	12.89%
Ca 227.546†	3380.4	7.346	mg/L	0.0645	7.346	mg/L	0.0645	0.88%
Al RADIAL†	475705.1	139.8	mg/L	1.98	139.8	mg/L	1.98	1.42%
Fe RADIAL†	37191.7	254.5	mg/L	9.90	254.5	mg/L	9.90	3.89%
Ca RADIAL†	63642.8	18.21	mg/L	0.081	18.21	mg/L	0.081	0.45%
K RADIAL†	13405.1	6.546	mg/L	0.2706	6.546	mg/L	0.2706	4.13%
Mg RADIAL†	5980.1	40.30	mg/L	1.489	40.30	mg/L	1.489	3.69%
Na RADIAL†	16072.4	0.6173	mg/L	0.08587	0.6173	mg/L	0.08587	13.91%

Sequence No.: 111
Sample ID: 12J0488-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 10/16/2012 3:48:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17889752.1	4.898	mg/L	0.0360				0.73%
Y RADIAL	339340.0	5.031	mg/L	0.0492				0.98%

As 188.979†	986.7	0.2756 mg/L	0.00469	0.2756 mg/L	0.00469	1.70%
Tl 190.801†	-102.6	-0.0101 mg/L	0.00174	-0.0101 mg/L	0.00174	17.29%
Se 196.026†	-190.2	0.0293 mg/L	0.00711	0.0293 mg/L	0.00711	24.26%
Zn 206.200†	57247.3	0.5121 mg/L	0.00619	0.5121 mg/L	0.00619	1.21%
Sb 206.836†	-44.7	-0.0115 mg/L	0.00279	-0.0115 mg/L	0.00279	24.31%
Pb 220.353†	8432.2	0.8131 mg/L	0.00818	0.8131 mg/L	0.00818	1.01%
Cd 226.502†	4222.2	-0.0124 mg/L	0.00034	-0.0124 mg/L	0.00034	2.76%
Co 228.616†	2030.5	0.0498 mg/L	0.00076	0.0498 mg/L	0.00076	1.53%
Ni 232.003†	5083.8	0.2563 mg/L	0.00280	0.2563 mg/L	0.00280	1.09%
Ba 233.527†	65732.7	0.3891 mg/L	0.00524	0.3891 mg/L	0.00524	1.35%
Mn 257.610†	1549242.8	1.660 mg/L	0.0109	1.660 mg/L	0.0109	0.66%
Cr 267.716†	16954.9	0.1083 mg/L	0.00105	0.1083 mg/L	0.00105	0.97%
Fe 273.955†	4314462.3	170.6 mg/L	1.22	170.6 mg/L	1.22	0.72%
Mg 279.077†	712203.6	31.33 mg/L	0.371	31.33 mg/L	0.371	1.19%
V 292.402†	75262.6	0.1822 mg/L	0.00203	0.1822 mg/L	0.00203	1.11%
Al 308.215†	4710253.1	120.4 mg/L	0.93	120.4 mg/L	0.93	0.77%
Be 313.107†	21628.0	0.0042 mg/L	0.00003	0.0042 mg/L	0.00003	0.62%
Cu 324.752†	59793.9	0.1521 mg/L	0.00225	0.1521 mg/L	0.00225	1.48%
Ag 338.289†	-1641.9	-0.0068 mg/L	0.00011	-0.0068 mg/L	0.00011	1.69%
Na 330.237†	-1517.1	-0.1700 mg/L	0.02345	-0.1700 mg/L	0.02345	13.79%
Ca 227.546†	6068.0	11.92 mg/L	0.244	11.92 mg/L	0.244	2.05%
Al RADIAL†	406134.9	119.4 mg/L	0.28	119.4 mg/L	0.28	0.24%
Fe RADIAL†	26316.3	180.1 mg/L	2.28	180.1 mg/L	2.28	1.26%
Ca RADIAL†	68100.9	19.49 mg/L	0.079	19.49 mg/L	0.079	0.41%
K RADIAL†	8830.7	4.312 mg/L	0.0331	4.312 mg/L	0.0331	0.77%
Mg RADIAL†	4494.9	30.29 mg/L	0.206	30.29 mg/L	0.206	0.68%
Na RADIAL†	11974.7	0.4599 mg/L	0.05051	0.4599 mg/L	0.05051	10.98%

Sequence No.: 112
Sample ID: 12J0488-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 10/16/2012 3:53:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17973332.3	4.921	mg/L	0.0070				0.14%
Y RADIAL	344529.0	5.108	mg/L	0.0475				0.93%
As 188.979†	559.6	0.1681	mg/L	0.00277	0.1681	mg/L	0.00277	1.65%
Tl 190.801†	-101.6	-0.0092	mg/L	0.00084	-0.0092	mg/L	0.00084	9.05%
Se 196.026†	-198.1	0.0300	mg/L	0.00596	0.0300	mg/L	0.00596	19.86%
Zn 206.200†	53778.9	0.4800	mg/L	0.00283	0.4800	mg/L	0.00283	0.59%
Sb 206.836†	-67.3	-0.0165	mg/L	0.00481	-0.0165	mg/L	0.00481	29.20%
Pb 220.353†	5180.5	0.4954	mg/L	0.00346	0.4954	mg/L	0.00346	0.70%
Cd 226.502†	4283.8	-0.0133	mg/L	0.00015	-0.0133	mg/L	0.00015	1.15%
Co 228.616†	1998.4	0.0490	mg/L	0.00029	0.0490	mg/L	0.00029	0.59%
Ni 232.003†	4354.1	0.2246	mg/L	0.00533	0.2246	mg/L	0.00533	2.37%
Ba 233.527†	68517.3	0.4055	mg/L	0.00356	0.4055	mg/L	0.00356	0.88%
Mn 257.610†	1339109.7	1.437	mg/L	0.0056	1.437	mg/L	0.0056	0.39%
Cr 267.716†	17284.7	0.1104	mg/L	0.00093	0.1104	mg/L	0.00093	0.84%
Fe 273.955†	4474595.0	177.0	mg/L	0.84	177.0	mg/L	0.84	0.47%
Mg 279.077†	747672.4	32.89	mg/L	0.271	32.89	mg/L	0.271	0.82%
V 292.402†	73121.1	0.1761	mg/L	0.00162	0.1761	mg/L	0.00162	0.92%
Al 308.215†	5059461.9	129.3	mg/L	0.58	129.3	mg/L	0.58	0.45%
Be 313.107†	22189.0	0.0043	mg/L	0.00002	0.0043	mg/L	0.00002	0.35%
Cu 324.752†	51824.3	0.1329	mg/L	0.00118	0.1329	mg/L	0.00118	0.89%
Ag 338.289†	-1753.9	-0.0072	mg/L	0.00023	-0.0072	mg/L	0.00023	3.13%
Na 330.237†	-1600.8	-0.2049	mg/L	0.00470	-0.2049	mg/L	0.00470	2.29%
Ca 227.546†	2950.9	6.279	mg/L	0.0677	6.279	mg/L	0.0677	1.08%
Al RADIAL†	437558.2	128.6	mg/L	0.92	128.6	mg/L	0.92	0.72%
Fe RADIAL†	27388.2	187.4	mg/L	2.70	187.4	mg/L	2.70	1.44%
Ca RADIAL†	51546.2	14.75	mg/L	0.198	14.75	mg/L	0.198	1.34%
K RADIAL†	9326.0	4.554	mg/L	0.0588	4.554	mg/L	0.0588	1.29%
Mg RADIAL†	4706.9	31.72	mg/L	0.513	31.72	mg/L	0.513	1.62%
Na RADIAL†	12390.2	0.4759	mg/L	0.01762	0.4759	mg/L	0.01762	3.70%

Sequence No.: 113
Sample ID: 12J0488-05

Autosampler Location: 93
Date Collected: 10/16/2012 3:58:31 AM

Analyst: MW
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18010774.8	4.932	mg/L	0.0091				0.18%
Y RADIAL	342764.6	5.082	mg/L	0.0344				0.68%
As 188.979†	736.4	0.2189	mg/L	0.00026	0.2189	mg/L	0.00026	0.12%
Tl 190.801†	-116.3	-0.0093	mg/L	0.00200	-0.0093	mg/L	0.00200	21.57%
Se 196.026†	-236.7	0.0399	mg/L	0.00321	0.0399	mg/L	0.00321	8.05%
Zn 206.200†	69419.5	0.6203	mg/L	0.00471	0.6203	mg/L	0.00471	0.76%
Sb 206.836†	-54.4	-0.0141	mg/L	0.00215	-0.0141	mg/L	0.00215	15.22%
Pb 220.353†	7725.2	0.7415	mg/L	0.00248	0.7415	mg/L	0.00248	0.33%
Cd 226.502†	5362.0	-0.0158	mg/L	0.00051	-0.0158	mg/L	0.00051	3.25%
Co 228.616†	3107.6	0.0762	mg/L	0.00072	0.0762	mg/L	0.00072	0.94%
Ni 232.003†	5381.9	0.2773	mg/L	0.00388	0.2773	mg/L	0.00388	1.40%
Ba 233.527†	67238.5	0.3980	mg/L	0.00210	0.3980	mg/L	0.00210	0.53%
Mn 257.610†	2009097.7	2.153	mg/L	0.0165	2.153	mg/L	0.0165	0.77%
Cr 267.716†	22264.7	0.1422	mg/L	0.00059	0.1422	mg/L	0.00059	0.42%
Fe 273.955†	5492673.1	217.2	mg/L	1.72	217.2	mg/L	1.72	0.79%
Mg 279.077†	877519.1	38.61	mg/L	0.330	38.61	mg/L	0.330	0.85%
V 292.402†	94821.9	0.2294	mg/L	0.00212	0.2294	mg/L	0.00212	0.93%
Al 308.215†	6217609.4	158.9	mg/L	1.12	158.9	mg/L	1.12	0.70%
Be 313.107†	26802.5	0.0052	mg/L	0.00009	0.0052	mg/L	0.00009	1.75%
Cu 324.752†	67961.5	0.1738	mg/L	0.00089	0.1738	mg/L	0.00089	0.51%
Ag 338.289†	-2149.9	-0.0088	mg/L	0.00002	-0.0088	mg/L	0.00002	0.23%
Na 330.237†	-1828.0	-0.1598	mg/L	0.00390	-0.1598	mg/L	0.00390	2.44%
Ca 227.546†	3234.7	7.002	mg/L	0.0379	7.002	mg/L	0.0379	0.54%
Al RADIAL†	535015.4	157.3	mg/L	0.89	157.3	mg/L	0.89	0.57%
Fe RADIAL†	34246.1	234.3	mg/L	1.41	234.3	mg/L	1.41	0.60%
Ca RADIAL†	61219.9	17.52	mg/L	0.196	17.52	mg/L	0.196	1.12%
K RADIAL†	10122.5	4.943	mg/L	0.0496	4.943	mg/L	0.0496	1.00%
Mg RADIAL†	5777.9	38.94	mg/L	0.083	38.94	mg/L	0.083	0.21%
Na RADIAL†	13014.5	0.4999	mg/L	0.02220	0.4999	mg/L	0.02220	4.44%

Sequence No.: 114
Sample ID: 12J0488-06
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 10/16/2012 4:03:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17602567.1	4.820	mg/L	0.0210				0.44%
Y RADIAL	332458.0	4.929	mg/L	0.0479				0.97%
As 188.979†	167.9	0.0851	mg/L	0.00351	0.0851	mg/L	0.00351	4.12%
Tl 190.801†	-153.3	-0.0122	mg/L	0.00319	-0.0122	mg/L	0.00319	26.04%
Se 196.026†	-325.6	0.0478	mg/L	0.00260	0.0478	mg/L	0.00260	5.45%
Zn 206.200†	72676.0	0.6459	mg/L	0.00266	0.6459	mg/L	0.00266	0.41%
Sb 206.836†	-94.9	-0.0234	mg/L	0.00446	-0.0234	mg/L	0.00446	19.06%
Pb 220.353†	1778.0	0.1541	mg/L	0.00335	0.1541	mg/L	0.00335	2.17%
Cd 226.502†	7049.9	-0.0213	mg/L	0.00016	-0.0213	mg/L	0.00016	0.75%
Co 228.616†	4029.9	0.0988	mg/L	0.00028	0.0988	mg/L	0.00028	0.28%
Ni 232.003†	6622.5	0.3448	mg/L	0.00284	0.3448	mg/L	0.00284	0.82%
Ba 233.527†	52734.7	0.3121	mg/L	0.00079	0.3121	mg/L	0.00079	0.25%
Mn 257.610†	2084759.6	2.237	mg/L	0.0110	2.237	mg/L	0.0110	0.49%
Cr 267.716†	26010.8	0.1661	mg/L	0.00134	0.1661	mg/L	0.00134	0.81%
Fe 273.955†	7297275.7	288.6	mg/L	0.29	288.6	mg/L	0.29	0.10%
Mg 279.077†	1247197.1	54.87	mg/L	0.169	54.87	mg/L	0.169	0.31%
V 292.402†	100969.4	0.2396	mg/L	0.00188	0.2396	mg/L	0.00188	0.78%
Al 308.215†	7519411.8	192.2	mg/L	1.21	192.2	mg/L	1.21	0.63%
Be 313.107†	27147.9	0.0053	mg/L	0.00005	0.0053	mg/L	0.00005	1.04%
Cu 324.752†	97361.6	0.2487	mg/L	0.00161	0.2487	mg/L	0.00161	0.65%
Ag 338.289†	-2967.1	-0.0120	mg/L	0.00009	-0.0120	mg/L	0.00009	0.73%
Na 330.237†	-2391.3	-0.2173	mg/L	0.02122	-0.2173	mg/L	0.02122	9.77%
Ca 227.546†	-5433.7	-8.437	mg/L	0.0808	-8.437	mg/L	0.0808	0.96%

Al RADIAL†	646306.3	190.0 mg/L	1.14	190.0 mg/L	1.14	0.60%
Fe RADIAL†	46931.6	321.1 mg/L	5.41	321.1 mg/L	5.41	1.68%
Ca RADIAL†	19399.6	5.551 mg/L	0.0934	5.551 mg/L	0.0934	1.68%
K RADIAL†	10612.8	5.182 mg/L	0.0812	5.182 mg/L	0.0812	1.57%
Mg RADIAL†	8159.4	54.99 mg/L	0.953	54.99 mg/L	0.953	1.73%
Na RADIAL†	11767.0	0.4520 mg/L	0.02975	0.4520 mg/L	0.02975	6.58%

Sequence No.: 115
Sample ID: 12J0488-07
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 10/16/2012 4:08:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18001754.8	4.929	mg/L	0.0514				1.04%
Y RADIAL	344366.2	5.106	mg/L	0.0301				0.59%
As 188.979†	916.9	0.2625	mg/L	0.00180	0.2625	mg/L	0.00180	0.68%
Tl 190.801†	-111.4	-0.0095	mg/L	0.00225	-0.0095	mg/L	0.00225	23.76%
Se 196.026†	-210.4	0.0420	mg/L	0.00280	0.0420	mg/L	0.00280	6.67%
Zn 206.200†	67882.4	0.6073	mg/L	0.00447	0.6073	mg/L	0.00447	0.74%
Sb 206.836†	-44.5	-0.0117	mg/L	0.00363	-0.0117	mg/L	0.00363	30.90%
Pb 220.353†	10111.9	0.9751	mg/L	0.01062	0.9751	mg/L	0.01062	1.09%
Cd 226.502†	4999.4	-0.0147	mg/L	0.00062	-0.0147	mg/L	0.00062	4.21%
Co 228.616†	2879.0	0.0706	mg/L	0.00074	0.0706	mg/L	0.00074	1.05%
Ni 232.003†	4874.8	0.2521	mg/L	0.00497	0.2521	mg/L	0.00497	1.97%
Ba 233.527†	68155.3	0.4034	mg/L	0.00263	0.4034	mg/L	0.00263	0.65%
Mn 257.610†	2289095.6	2.451	mg/L	0.0378	2.451	mg/L	0.0378	1.54%
Cr 267.716†	19912.7	0.1272	mg/L	0.00140	0.1272	mg/L	0.00140	1.10%
Fe 273.955†	5116064.9	202.3	mg/L	3.26	202.3	mg/L	3.26	1.61%
Mg 279.077†	877924.1	38.62	mg/L	0.223	38.62	mg/L	0.223	0.58%
V 292.402†	84400.9	0.2034	mg/L	0.00095	0.2034	mg/L	0.00095	0.47%
Al 308.215†	5555981.8	142.0	mg/L	2.36	142.0	mg/L	2.36	1.66%
Be 313.107†	26765.7	0.0052	mg/L	0.00007	0.0052	mg/L	0.00007	1.37%
Cu 324.752†	66487.4	0.1696	mg/L	0.00171	0.1696	mg/L	0.00171	1.01%
Ag 338.289†	-1888.4	-0.0078	mg/L	0.00020	-0.0078	mg/L	0.00020	2.55%
Na 330.237†	-1715.6	-0.1512	mg/L	0.02833	-0.1512	mg/L	0.02833	18.74%
Ca 227.546†	5165.1	10.44	mg/L	0.194	10.44	mg/L	0.194	1.85%
Al RADIAL†	477828.3	140.5	mg/L	0.71	140.5	mg/L	0.71	0.51%
Fe RADIAL†	31386.5	214.8	mg/L	1.88	214.8	mg/L	1.88	0.88%
Ca RADIAL†	68385.5	19.57	mg/L	0.020	19.57	mg/L	0.020	0.10%
K RADIAL†	10154.6	4.959	mg/L	0.0473	4.959	mg/L	0.0473	0.95%
Mg RADIAL†	5558.2	37.46	mg/L	0.351	37.46	mg/L	0.351	0.94%
Na RADIAL†	13678.7	0.5254	mg/L	0.02149	0.5254	mg/L	0.02149	4.09%

Sequence No.: 116
Sample ID: 12J0488-08
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 10/16/2012 4:13:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17974843.7	4.922	mg/L	0.0751				1.53%
Y RADIAL	341246.3	5.060	mg/L	0.0389				0.77%
As 188.979†	551.7	0.1765	mg/L	0.00503	0.1765	mg/L	0.00503	2.85%
Tl 190.801†	-144.3	-0.0137	mg/L	0.00189	-0.0137	mg/L	0.00189	13.78%
Se 196.026†	-265.2	0.0479	mg/L	0.01234	0.0479	mg/L	0.01234	25.78%
Zn 206.200†	73050.8	0.6520	mg/L	0.01022	0.6520	mg/L	0.01022	1.57%
Sb 206.836†	-45.5	-0.0122	mg/L	0.00600	-0.0122	mg/L	0.00600	49.16%
Pb 220.353†	5522.0	0.5222	mg/L	0.00900	0.5222	mg/L	0.00900	1.72%
Cd 226.502†	6133.1	-0.0179	mg/L	0.00049	-0.0179	mg/L	0.00049	2.71%
Co 228.616†	3449.1	0.0846	mg/L	0.00095	0.0846	mg/L	0.00095	1.12%
Ni 232.003†	5776.6	0.3001	mg/L	0.00225	0.3001	mg/L	0.00225	0.75%
Ba 233.527†	63121.6	0.3736	mg/L	0.00555	0.3736	mg/L	0.00555	1.49%
Mn 257.610†	2236909.2	2.397	mg/L	0.0332	2.397	mg/L	0.0332	1.38%

Cr 267.716†	23172.5	0.1480 mg/L	0.00215	0.1480 mg/L	0.00215	1.45%
Fe 273.955†	6266574.4	247.8 mg/L	4.01	247.8 mg/L	4.01	1.62%
Mg 279.077†	1131250.1	49.77 mg/L	0.701	49.77 mg/L	0.701	1.41%
V 292.402†	87165.9	0.2070 mg/L	0.00319	0.2070 mg/L	0.00319	1.54%
Al 308.215†	6228980.3	159.2 mg/L	2.46	159.2 mg/L	2.46	1.54%
Be 313.107†	31107.3	0.0060 mg/L	0.00004	0.0060 mg/L	0.00004	0.72%
Cu 324.752†	79875.1	0.2043 mg/L	0.00288	0.2043 mg/L	0.00288	1.41%
Ag 338.289†	-2231.2	-0.0091 mg/L	0.00021	-0.0091 mg/L	0.00021	2.32%
Na 330.237†	-2023.8	-0.1534 mg/L	0.02962	-0.1534 mg/L	0.02962	19.31%
Ca 227.546†	-405.9	0.5136 mg/L	0.15406	0.5136 mg/L	0.15406	30.00%
Al RADIAL†	536771.4	157.8 mg/L	0.92	157.8 mg/L	0.92	0.58%
Fe RADIAL†	39735.9	271.9 mg/L	1.36	271.9 mg/L	1.36	0.50%
Ca RADIAL†	44415.4	12.71 mg/L	0.062	12.71 mg/L	0.062	0.49%
K RADIAL†	11030.2	5.386 mg/L	0.0210	5.386 mg/L	0.0210	0.39%
Mg RADIAL†	7480.6	50.41 mg/L	0.223	50.41 mg/L	0.223	0.44%
Na RADIAL†	12428.9	0.4774 mg/L	0.03079	0.4774 mg/L	0.03079	6.45%

Sequence No.: 117
Sample ID: 12J0488-09
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 10/16/2012 4:18:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17932655.7	4.910	mg/L	0.0135				0.27%
Y RADIAL	342937.7	5.085	mg/L	0.0130				0.25%
As 188.979†	201.7	0.0783	mg/L	0.00236	0.0783	mg/L	0.00236	3.02%
Tl 190.801†	-85.2	-0.0048	mg/L	0.00166	-0.0048	mg/L	0.00166	34.92%
Se 196.026†	-187.1	0.0403	mg/L	0.00619	0.0403	mg/L	0.00619	15.35%
Zn 206.200†	60265.6	0.5390	mg/L	0.00466	0.5390	mg/L	0.00466	0.87%
Sb 206.836†	-62.7	-0.0154	mg/L	0.00150	-0.0154	mg/L	0.00150	9.77%
Pb 220.353†	3422.4	0.3218	mg/L	0.00061	0.3218	mg/L	0.00061	0.19%
Cd 226.502†	4416.5	-0.0140	mg/L	0.00029	-0.0140	mg/L	0.00029	2.08%
Co 228.616†	2793.7	0.0685	mg/L	0.00082	0.0685	mg/L	0.00082	1.20%
Ni 232.003†	4614.0	0.2374	mg/L	0.00248	0.2374	mg/L	0.00248	1.04%
Ba 233.527†	109708.7	0.6493	mg/L	0.00473	0.6493	mg/L	0.00473	0.73%
Mn 257.610†	4001772.7	4.276	mg/L	0.0328	4.276	mg/L	0.0328	0.77%
Cr 267.716†	17678.1	0.1129	mg/L	0.00022	0.1129	mg/L	0.00022	0.19%
Fe 273.955†	4657027.9	184.2	mg/L	1.69	184.2	mg/L	1.69	0.92%
Mg 279.077†	762960.5	33.57	mg/L	0.300	33.57	mg/L	0.300	0.89%
V 292.402†	77612.5	0.1872	mg/L	0.00160	0.1872	mg/L	0.00160	0.85%
Al 308.215†	4725108.0	120.8	mg/L	1.03	120.8	mg/L	1.03	0.85%
Be 313.107†	20103.2	0.0039	mg/L	0.00004	0.0039	mg/L	0.00004	1.13%
Cu 324.752†	47680.4	0.1234	mg/L	0.00132	0.1234	mg/L	0.00132	1.07%
Ag 338.289†	-1999.7	-0.0081	mg/L	0.00024	-0.0081	mg/L	0.00024	2.93%
Na 330.237†	-1549.5	-0.1434	mg/L	0.01615	-0.1434	mg/L	0.01615	11.27%
Ca 227.546†	286.6	1.455	mg/L	0.0249	1.455	mg/L	0.0249	1.71%
Al RADIAL†	404912.1	119.0	mg/L	0.29	119.0	mg/L	0.29	0.24%
Fe RADIAL†	28420.8	194.5	mg/L	0.96	194.5	mg/L	0.96	0.49%
Ca RADIAL†	35207.5	10.07	mg/L	0.087	10.07	mg/L	0.087	0.87%
K RADIAL†	8323.2	4.064	mg/L	0.0280	4.064	mg/L	0.0280	0.69%
Mg RADIAL†	4813.9	32.44	mg/L	0.300	32.44	mg/L	0.300	0.92%
Na RADIAL†	12663.0	0.4864	mg/L	0.01830	0.4864	mg/L	0.01830	3.76%

Sequence No.: 118
Sample ID: 12J0488-10
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 10/16/2012 4:23:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17788084.9	4.871	mg/L	0.0219				0.45%
Y RADIAL	332739.8	4.934	mg/L	0.0138				0.28%
As 188.979†	139.0	0.0670	mg/L	0.00271	0.0670	mg/L	0.00271	4.04%

Tl 190.801†	-119.6	-0.0104 mg/L	0.00094	-0.0104 mg/L	0.00094	9.03%
Se 196.026†	-232.3	0.0410 mg/L	0.00698	0.0410 mg/L	0.00698	17.01%
Zn 206.200†	60871.4	0.5426 mg/L	0.00742	0.5426 mg/L	0.00742	1.37%
Sb 206.836†	-80.9	-0.0197 mg/L	0.00112	-0.0197 mg/L	0.00112	5.70%
Pb 220.353†	2011.4	0.1820 mg/L	0.00150	0.1820 mg/L	0.00150	0.82%
Cd 226.502†	5146.9	-0.0165 mg/L	0.00007	-0.0165 mg/L	0.00007	0.44%
Co 228.616†	3384.9	0.0830 mg/L	0.00031	0.0830 mg/L	0.00031	0.38%
Ni 232.003†	9112.1	0.4447 mg/L	0.00205	0.4447 mg/L	0.00205	0.46%
Ba 233.527†	53491.1	0.3166 mg/L	0.00351	0.3166 mg/L	0.00351	1.11%
Mn 257.610†	1972737.7	2.114 mg/L	0.0165	2.114 mg/L	0.0165	0.78%
Cr 267.716†	21060.6	0.1345 mg/L	0.00046	0.1345 mg/L	0.00046	0.34%
Fe 273.955†	5456598.3	215.8 mg/L	1.33	215.8 mg/L	1.33	0.62%
Mg 279.077†	850686.0	37.43 mg/L	0.229	37.43 mg/L	0.229	0.61%
V 292.402†	85231.3	0.2045 mg/L	0.00172	0.2045 mg/L	0.00172	0.84%
Al 308.215†	5687651.9	145.4 mg/L	1.31	145.4 mg/L	1.31	0.90%
Be 313.107†	22860.8	0.0044 mg/L	0.00005	0.0044 mg/L	0.00005	1.17%
Cu 324.752†	69817.7	0.1787 mg/L	0.00167	0.1787 mg/L	0.00167	0.93%
Ag 338.289†	-2430.1	-0.0098 mg/L	0.00015	-0.0098 mg/L	0.00015	1.51%
Na 330.237†	-1833.2	-0.1907 mg/L	0.02182	-0.1907 mg/L	0.02182	11.44%
Ca 227.546†	-3189.1	-4.716 mg/L	0.0735	-4.716 mg/L	0.0735	1.56%
Al RADIAL†	493804.0	145.2 mg/L	0.18	145.2 mg/L	0.18	0.12%
Fe RADIAL†	34371.5	235.2 mg/L	2.66	235.2 mg/L	2.66	1.13%
Ca RADIAL†	19014.8	5.441 mg/L	0.0719	5.441 mg/L	0.0719	1.32%
K RADIAL†	8912.9	4.352 mg/L	0.0221	4.352 mg/L	0.0221	0.51%
Mg RADIAL†	5670.7	38.22 mg/L	0.340	38.22 mg/L	0.340	0.89%
Na RADIAL†	11555.9	0.4438 mg/L	0.01798	0.4438 mg/L	0.01798	4.05%

Sequence No.: 119
Sample ID: CCV-10
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/16/2012 4:28:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17722128.4	4.853	mg/L	0.0204				0.42%
Y RADIAL	325272.0	4.823	mg/L	0.0611				1.27%
As 188.979†	939.7	0.2393	mg/L	0.00148	0.2393	mg/L	0.00148	0.62%
Tl 190.801†	992.3	0.2424	mg/L	0.00326	0.2424	mg/L	0.00326	1.34%
Se 196.026†	498.5	0.2410	mg/L	0.00252	0.2410	mg/L	0.00252	1.05%
Zn 206.200†	275355.4	2.514	mg/L	0.0013	2.514	mg/L	0.0013	0.05%
Sb 206.836†	1148.5	0.2481	mg/L	0.00349	0.2481	mg/L	0.00349	1.41%
Pb 220.353†	2594.0	0.2540	mg/L	0.00313	0.2540	mg/L	0.00313	1.23%
Cd 226.502†	26163.1	0.1220	mg/L	0.00034	0.1220	mg/L	0.00034	0.27%
Co 228.616†	103059.9	2.528	mg/L	0.0104	2.528	mg/L	0.0104	0.41%
Ni 232.003†	55016.1	2.473	mg/L	0.0091	2.473	mg/L	0.0091	0.37%
Ba 233.527†	1712408.3	10.14	mg/L	0.074	10.14	mg/L	0.074	0.73%
Mn 257.610†	2352905.3	2.509	mg/L	0.0194	2.509	mg/L	0.0194	0.78%
Cr 267.716†	155350.7	0.9921	mg/L	0.00319	0.9921	mg/L	0.00319	0.32%
Fe 273.955†	128117.2	5.067	mg/L	0.0173	5.067	mg/L	0.0173	0.34%
Mg 279.077†	560091.5	24.63	mg/L	0.198	24.63	mg/L	0.198	0.80%
V 292.402†	940780.9	2.450	mg/L	0.0311	2.450	mg/L	0.0311	1.27%
Al 308.215†	377760.4	9.656	mg/L	0.1028	9.656	mg/L	0.1028	1.07%
Be 313.107†	1267813.8	0.2466	mg/L	0.00360	0.2466	mg/L	0.00360	1.46%
Cu 324.752†	494297.6	1.205	mg/L	0.0062	1.205	mg/L	0.0062	0.52%
Ag 338.289†	298416.2	1.214	mg/L	0.0064	1.214	mg/L	0.0064	0.52%
Na 330.237†	33541.9	22.84	mg/L	0.034	22.84	mg/L	0.034	0.15%
Ca 227.546†	13317.8	24.29	mg/L	0.132	24.29	mg/L	0.132	0.54%
Al RADIAL†	33814.5	9.940	mg/L	0.1331	9.940	mg/L	0.1331	1.34%
Fe RADIAL†	731.5	5.005	mg/L	0.0382	5.005	mg/L	0.0382	0.76%
Ca RADIAL†	88362.6	25.28	mg/L	0.316	25.28	mg/L	0.316	1.25%
K RADIAL†	9965.7	4.866	mg/L	0.0378	4.866	mg/L	0.0378	0.78%
Mg RADIAL†	3707.3	24.98	mg/L	0.320	24.98	mg/L	0.320	1.28%
Na RADIAL†	641376.5	24.63	mg/L	0.040	24.63	mg/L	0.040	0.16%

Sequence No.: 120
Sample ID: CCB-10
Analyst: MW

Autosampler Location: 1
Date Collected: 10/16/2012 4:37:10 AM
Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18498115.9	5.065	mg/L	0.0337				0.67%
Y RADIAL	335081.0	4.968	mg/L	0.0326				0.66%
As 188.979†	8.5	0.0022	mg/L	0.00122	0.0022	mg/L	0.00122	56.69%
Tl 190.801†	4.1	0.0010	mg/L	0.00122	0.0010	mg/L	0.00122	122.41%
Se 196.026†	-7.8	-0.0037	mg/L	0.00101	-0.0037	mg/L	0.00101	27.20%
Zn 206.200†	52.0	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	29.67%
Sb 206.836†	-3.7	-0.0008	mg/L	0.00244	-0.0008	mg/L	0.00244	308.81%
Pb 220.353†	10.6	0.0010	mg/L	0.00154	0.0010	mg/L	0.00154	148.84%
Cd 226.502†	23.2	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	41.66%
Co 228.616†	39.1	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	12.97%
Ni 232.003†	3.7	0.0002	mg/L	0.00078	0.0002	mg/L	0.00078	468.67%
Ba 233.527†	479.9	0.0028	mg/L	0.00069	0.0028	mg/L	0.00069	24.37%
Mn 257.610†	697.6	0.0007	mg/L	0.00017	0.0007	mg/L	0.00017	22.94%
Cr 267.716†	25.2	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	127.03%
Fe 273.955†	115.0	0.0045	mg/L	0.00060	0.0045	mg/L	0.00060	13.30%
Mg 279.077†	162.6	0.0072	mg/L	0.00129	0.0072	mg/L	0.00129	17.98%
V 292.402†	230.9	0.0006	mg/L	0.00020	0.0006	mg/L	0.00020	32.98%
Al 308.215†	-312.6	-0.0080	mg/L	0.00303	-0.0080	mg/L	0.00303	37.94%
Be 313.107†	1300.1	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	29.96%
Cu 324.752†	-127.6	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	50.11%
Ag 338.289†	1412.0	0.0057	mg/L	0.00035	0.0057	mg/L	0.00035	6.06%
Na 330.237†	7.3	0.0049	mg/L	0.02507	0.0049	mg/L	0.02507	507.51%
Ca 227.546†	-6.5	-0.0118	mg/L	0.00576	-0.0118	mg/L	0.00576	48.65%
Al RADIAL†	19.0	0.0056	mg/L	0.00398	0.0056	mg/L	0.00398	71.15%
Fe RADIAL†	0.1	0.0009	mg/L	0.02005	0.0009	mg/L	0.02005	>999.9%
Ca RADIAL†	63.6	0.0182	mg/L	0.00211	0.0182	mg/L	0.00211	11.60%
K RADIAL†	-0.1	0.0000	mg/L	0.00943	0.0000	mg/L	0.00943	>999.9%
Mg RADIAL†	3.9	0.0263	mg/L	0.01873	0.0263	mg/L	0.01873	71.35%
Na RADIAL†	-1640.9	-0.0630	mg/L	0.03371	-0.0630	mg/L	0.03371	53.49%

Sequence No.: 121
Sample ID: 12J0488-11
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 99
Date Collected: 10/16/2012 4:42:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18044184.2	4.941	mg/L	0.0050				0.10%
Y RADIAL	347444.2	5.152	mg/L	0.0392				0.76%
As 188.979†	284.5	0.0991	mg/L	0.00292	0.0991	mg/L	0.00292	2.95%
Tl 190.801†	-107.8	-0.0102	mg/L	0.00180	-0.0102	mg/L	0.00180	17.58%
Se 196.026†	-176.3	0.0445	mg/L	0.00112	0.0445	mg/L	0.00112	2.52%
Zn 206.200†	59201.4	0.5291	mg/L	0.00460	0.5291	mg/L	0.00460	0.87%
Sb 206.836†	-41.1	-0.0109	mg/L	0.00349	-0.0109	mg/L	0.00349	31.99%
Pb 220.353†	3761.0	0.3563	mg/L	0.00373	0.3563	mg/L	0.00373	1.05%
Cd 226.502†	4520.1	-0.0132	mg/L	0.00047	-0.0132	mg/L	0.00047	3.54%
Co 228.616†	2449.2	0.0601	mg/L	0.00030	0.0601	mg/L	0.00030	0.49%
Ni 232.003†	6029.6	0.3008	mg/L	0.00166	0.3008	mg/L	0.00166	0.55%
Ba 233.527†	80447.7	0.4761	mg/L	0.00313	0.4761	mg/L	0.00313	0.66%
Mn 257.610†	2209974.1	2.366	mg/L	0.0070	2.366	mg/L	0.0070	0.30%
Cr 267.716†	18378.2	0.1174	mg/L	0.00020	0.1174	mg/L	0.00020	0.17%
Fe 273.955†	4620818.7	182.7	mg/L	0.44	182.7	mg/L	0.44	0.24%
Mg 279.077†	718038.2	31.59	mg/L	0.248	31.59	mg/L	0.248	0.78%
V 292.402†	80639.1	0.1952	mg/L	0.00167	0.1952	mg/L	0.00167	0.85%
Al 308.215†	5254194.4	134.3	mg/L	0.43	134.3	mg/L	0.43	0.32%
Be 313.107†	28583.2	0.0056	mg/L	0.00008	0.0056	mg/L	0.00008	1.35%
Cu 324.752†	61561.2	0.1570	mg/L	0.00166	0.1570	mg/L	0.00166	1.06%
Ag 338.289†	-1699.2	-0.0069	mg/L	0.00067	-0.0069	mg/L	0.00067	9.71%
Na 330.237†	-1555.1	-0.1533	mg/L	0.01519	-0.1533	mg/L	0.01519	9.91%
Ca 227.546†	423.8	1.705	mg/L	0.0940	1.705	mg/L	0.0940	5.51%
Al RADIAL†	453159.6	133.2	mg/L	0.61	133.2	mg/L	0.61	0.45%

Fe RADIAL†	28131.8	192.5 mg/L	1.72	192.5 mg/L	1.72	0.89%
Ca RADIAL†	35527.0	10.17 mg/L	0.195	10.17 mg/L	0.195	1.92%
K RADIAL†	9213.1	4.499 mg/L	0.0831	4.499 mg/L	0.0831	1.85%
Mg RADIAL†	4508.2	30.38 mg/L	0.301	30.38 mg/L	0.301	0.99%
Na RADIAL†	14416.0	0.5537 mg/L	0.03121	0.5537 mg/L	0.03121	5.64%

Sequence No.: 122
Sample ID: 12J0488-12
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 10/16/2012 4:47:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0488-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18016674.9	4.933	mg/L	0.0382				0.77%
Y RADIAL	342066.3	5.072	mg/L	0.0075				0.15%
As 188.979†	295.4	0.1037	mg/L	0.00387	0.1037	mg/L	0.00387	3.74%
Tl 190.801†	-106.3	-0.0088	mg/L	0.00157	-0.0088	mg/L	0.00157	17.86%
Se 196.026†	-200.0	0.0418	mg/L	0.00460	0.0418	mg/L	0.00460	11.00%
Zn 206.200†	62100.6	0.5548	mg/L	0.00452	0.5548	mg/L	0.00452	0.81%
Sb 206.836†	-60.3	-0.0152	mg/L	0.00227	-0.0152	mg/L	0.00227	14.94%
Pb 220.353†	3731.2	0.3526	mg/L	0.00424	0.3526	mg/L	0.00424	1.20%
Cd 226.502†	4888.1	-0.0138	mg/L	0.00051	-0.0138	mg/L	0.00051	3.71%
Co 228.616†	2745.3	0.0673	mg/L	0.00099	0.0673	mg/L	0.00099	1.47%
Ni 232.003†	5827.8	0.2937	mg/L	0.00070	0.2937	mg/L	0.00070	0.24%
Ba 233.527†	82340.8	0.4873	mg/L	0.00390	0.4873	mg/L	0.00390	0.80%
Mn 257.610†	2694058.3	2.882	mg/L	0.0300	2.882	mg/L	0.0300	1.04%
Cr 267.716†	19579.7	0.1250	mg/L	0.00124	0.1250	mg/L	0.00124	0.99%
Fe 273.955†	4930190.8	195.0	mg/L	1.88	195.0	mg/L	1.88	0.96%
Mg 279.077†	780667.5	34.35	mg/L	0.211	34.35	mg/L	0.211	0.61%
V 292.402†	84271.8	0.2037	mg/L	0.00177	0.2037	mg/L	0.00177	0.87%
Al 308.215†	5574105.9	142.5	mg/L	1.86	142.5	mg/L	1.86	1.30%
Be 313.107†	28970.9	0.0056	mg/L	0.00005	0.0056	mg/L	0.00005	0.90%
Cu 324.752†	57202.3	0.1469	mg/L	0.00093	0.1469	mg/L	0.00093	0.63%
Ag 338.289†	-1903.6	-0.0077	mg/L	0.00016	-0.0077	mg/L	0.00016	2.06%
Na 330.237†	-1649.3	-0.1578	mg/L	0.03673	-0.1578	mg/L	0.03673	23.27%
Ca 227.546†	120.0	1.213	mg/L	0.0895	1.213	mg/L	0.0895	7.38%
Al RADIAL†	480259.2	141.2	mg/L	0.36	141.2	mg/L	0.36	0.25%
Fe RADIAL†	30293.2	207.3	mg/L	1.45	207.3	mg/L	1.45	0.70%
Ca RADIAL†	35994.6	10.30	mg/L	0.100	10.30	mg/L	0.100	0.97%
K RADIAL†	9796.1	4.783	mg/L	0.0116	4.783	mg/L	0.0116	0.24%
Mg RADIAL†	4965.0	33.46	mg/L	0.206	33.46	mg/L	0.206	0.61%
Na RADIAL†	12207.0	0.4689	mg/L	0.00949	0.4689	mg/L	0.00949	2.02%

Sequence No.: 123
Sample ID: 12J0489-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 10/16/2012 4:52:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0489-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18073367.0	4.949	mg/L	0.0185				0.37%
Y RADIAL	347477.2	5.152	mg/L	0.0483				0.94%
As 188.979†	164.7	0.0894	mg/L	0.00020	0.0894	mg/L	0.00020	0.22%
Tl 190.801†	-194.4	-0.0213	mg/L	0.00208	-0.0213	mg/L	0.00208	9.79%
Se 196.026†	-360.0	0.0559	mg/L	0.00438	0.0559	mg/L	0.00438	7.85%
Zn 206.200†	546304.5	4.972	mg/L	0.0034	4.972	mg/L	0.0034	0.07%
Sb 206.836†	-24.3	-0.0058	mg/L	0.00123	-0.0058	mg/L	0.00123	21.26%
Pb 220.353†	26269.0	2.528	mg/L	0.0076	2.528	mg/L	0.0076	0.30%
Cd 226.502†	12100.2	-0.0042	mg/L	0.00057	-0.0042	mg/L	0.00057	13.68%
Co 228.616†	1724.1	0.0423	mg/L	0.00018	0.0423	mg/L	0.00018	0.43%
Ni 232.003†	5518.6	0.3008	mg/L	0.00189	0.3008	mg/L	0.00189	0.63%
Ba 233.527†	142423.2	0.8430	mg/L	0.00223	0.8430	mg/L	0.00223	0.26%
Mn 257.610†	1576768.0	1.698	mg/L	0.0060	1.698	mg/L	0.0060	0.35%
Cr 267.716†	36253.1	0.2315	mg/L	0.00134	0.2315	mg/L	0.00134	0.58%

Fe 273.955†	8177974.1	323.4 mg/L	1.37	323.4 mg/L	1.37	0.43%
Mg 279.077†	453802.4	19.98 mg/L	0.042	19.98 mg/L	0.042	0.21%
V 292.402†	88944.2	0.2055 mg/L	0.00159	0.2055 mg/L	0.00159	0.78%
Al 308.215†	1396283.7	35.72 mg/L	0.160	35.72 mg/L	0.160	0.45%
Be 313.107†	24522.5	0.0048 mg/L	0.00003	0.0048 mg/L	0.00003	0.59%
Cu 324.752†	310679.0	0.7724 mg/L	0.00671	0.7724 mg/L	0.00671	0.87%
Ag 338.289†	-224.2	-0.0011 mg/L	0.00032	-0.0011 mg/L	0.00032	28.95%
Na 330.237†	-6161.8	-2.572 mg/L	0.0864	-2.572 mg/L	0.0864	3.36%
Ca 227.546†	9708.3	19.23 mg/L	0.190	19.23 mg/L	0.190	0.99%
Al RADIAL†	118380.9	34.80 mg/L	0.086	34.80 mg/L	0.086	0.25%
Fe RADIAL†	52326.1	358.0 mg/L	2.22	358.0 mg/L	2.22	0.62%
Ca RADIAL†	120878.7	34.59 mg/L	0.108	34.59 mg/L	0.108	0.31%
K RADIAL†	7025.1	3.430 mg/L	0.0268	3.430 mg/L	0.0268	0.78%
Mg RADIAL†	3004.9	20.25 mg/L	0.125	20.25 mg/L	0.125	0.62%
Na RADIAL†	38669.9	1.485 mg/L	0.0374	1.485 mg/L	0.0374	2.52%

Sequence No.: 124
Sample ID: 12J0490-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 10/16/2012 4:57:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0490-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18626651.1	5.100	mg/L	0.0382				0.75%
Y RADIAL	347399.4	5.151	mg/L	0.0629				1.22%
As 188.979†	6.6	0.0074	mg/L	0.00219	0.0074	mg/L	0.00219	29.80%
Tl 190.801†	-71.8	-0.0143	mg/L	0.00142	-0.0143	mg/L	0.00142	9.94%
Se 196.026†	-34.3	0.0108	mg/L	0.00292	0.0108	mg/L	0.00292	27.05%
Zn 206.200†	5322.0	0.0465	mg/L	0.00049	0.0465	mg/L	0.00049	1.05%
Sb 206.836†	-22.9	-0.0051	mg/L	0.00055	-0.0051	mg/L	0.00055	10.72%
Pb 220.353†	174.0	0.0132	mg/L	0.00144	0.0132	mg/L	0.00144	10.94%
Cd 226.502†	943.7	-0.0028	mg/L	0.00003	-0.0028	mg/L	0.00003	1.20%
Co 228.616†	495.5	0.0122	mg/L	0.00023	0.0122	mg/L	0.00023	1.91%
Ni 232.003†	945.5	0.0488	mg/L	0.00015	0.0488	mg/L	0.00015	0.30%
Ba 233.527†	16196.2	0.0959	mg/L	0.00055	0.0959	mg/L	0.00055	0.57%
Mn 257.610†	664770.5	0.7108	mg/L	0.00125	0.7108	mg/L	0.00125	0.18%
Cr 267.716†	4853.4	0.0310	mg/L	0.00014	0.0310	mg/L	0.00014	0.46%
Fe 273.955†	975815.6	38.59	mg/L	0.193	38.59	mg/L	0.193	0.50%
Mg 279.077†	82105.7	3.613	mg/L	0.0045	3.613	mg/L	0.0045	0.12%
V 292.402†	18996.7	0.0464	mg/L	0.00007	0.0464	mg/L	0.00007	0.14%
Al 308.215†	492632.8	12.60	mg/L	0.074	12.60	mg/L	0.074	0.58%
Be 313.107†	3682.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.12%
Cu 324.752†	9723.6	0.0254	mg/L	0.00014	0.0254	mg/L	0.00014	0.56%
Ag 338.289†	-2175.1	-0.0088	mg/L	0.00023	-0.0088	mg/L	0.00023	2.57%
Na 330.237†	-682.1	-0.2741	mg/L	0.05555	-0.2741	mg/L	0.05555	20.27%
Ca 227.546†	-70.7	0.0594	mg/L	0.05935	0.0594	mg/L	0.05935	99.97%
Al RADIAL†	43473.4	12.78	mg/L	0.034	12.78	mg/L	0.034	0.26%
Fe RADIAL†	5723.0	39.16	mg/L	0.464	39.16	mg/L	0.464	1.18%
Ca RADIAL†	5939.6	1.700	mg/L	0.0055	1.700	mg/L	0.0055	0.32%
K RADIAL†	5340.7	2.608	mg/L	0.0217	2.608	mg/L	0.0217	0.83%
Mg RADIAL†	532.2	3.586	mg/L	0.0421	3.586	mg/L	0.0421	1.17%
Na RADIAL†	17573.9	0.6750	mg/L	0.04810	0.6750	mg/L	0.04810	7.13%

Sequence No.: 125
Sample ID: 12J0500-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 10/16/2012 5:02:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 12J0500-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18367921.9	5.029	mg/L	0.0292				0.58%
Y RADIAL	349872.6	5.188	mg/L	0.0414				0.80%
As 188.979†	83.7	0.0439	mg/L	0.00136	0.0439	mg/L	0.00136	3.11%
Tl 190.801†	-376.9	-0.0784	mg/L	0.00157	-0.0784	mg/L	0.00157	2.00%

Se 196.026†	-163.8	0.0302 mg/L	0.00235	0.0302 mg/L	0.00235	7.79%
Zn 206.200†	62281.2	0.5592 mg/L	0.00278	0.5592 mg/L	0.00278	0.50%
Sb 206.836†	-110.0	-0.0254 mg/L	0.00169	-0.0254 mg/L	0.00169	6.65%
Pb 220.353†	3685.1	0.3504 mg/L	0.00094	0.3504 mg/L	0.00094	0.27%
Cd 226.502†	3919.2	-0.0106 mg/L	0.00012	-0.0106 mg/L	0.00012	1.16%
Co 228.616†	3009.8	0.0738 mg/L	0.00071	0.0738 mg/L	0.00071	0.96%
Ni 232.003†	3699.2	0.1914 mg/L	0.00244	0.1914 mg/L	0.00244	1.28%
Ba 233.527†	94295.1	0.5581 mg/L	0.00245	0.5581 mg/L	0.00245	0.44%
Mn 257.610†	3034958.3	3.243 mg/L	0.0036	3.243 mg/L	0.0036	0.11%
Cr 267.716†	27658.9	0.1766 mg/L	0.00107	0.1766 mg/L	0.00107	0.60%
Fe 273.955†	3893813.0	154.0 mg/L	0.18	154.0 mg/L	0.18	0.12%
Mg 279.077†	1140629.8	50.17 mg/L	0.084	50.17 mg/L	0.084	0.17%
V 292.402†	116010.6	0.2897 mg/L	0.00102	0.2897 mg/L	0.00102	0.35%
Al 308.215†	4139948.9	105.8 mg/L	0.30	105.8 mg/L	0.30	0.28%
Be 313.107†	17946.3	0.0035 mg/L	0.00081	0.0035 mg/L	0.00081	23.18%
Cu 324.752†	79471.5	0.1986 mg/L	0.00064	0.1986 mg/L	0.00064	0.32%
Ag 338.289†	-13214.3	-0.0542 mg/L	0.00046	-0.0542 mg/L	0.00046	0.86%
Na 330.237†	-4730.6	-2.382 mg/L	0.0328	-2.382 mg/L	0.0328	1.38%
Ca 227.546†	22275.6	41.37 mg/L	0.202	41.37 mg/L	0.202	0.49%
Al RADIAL†	354599.8	104.2 mg/L	0.26	104.2 mg/L	0.26	0.25%
Fe RADIAL†	23957.8	163.9 mg/L	0.90	163.9 mg/L	0.90	0.55%
Ca RADIAL†	167708.5	47.99 mg/L	0.034	47.99 mg/L	0.034	0.07%
K RADIAL†	27500.3	13.43 mg/L	0.107	13.43 mg/L	0.107	0.80%
Mg RADIAL†	7424.4	50.04 mg/L	0.253	50.04 mg/L	0.253	0.51%
Na RADIAL†	69337.0	2.663 mg/L	0.0141	2.663 mg/L	0.0141	0.53%

Sequence No.: 126
Sample ID: SD 1:5 S 12J0500-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 10/16/2012 5:07:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SD 1:5 S 12J0500-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17932839.5	4.910	mg/L	0.0161				0.33%
Y RADIAL	333951.6	4.951	mg/L	0.0483				0.97%
As 188.979†	19.8	0.0104	mg/L	0.00072	0.0104	mg/L	0.00072	6.97%
Tl 190.801†	-89.6	-0.0187	mg/L	0.00288	-0.0187	mg/L	0.00288	15.43%
Se 196.026†	-31.4	0.0107	mg/L	0.00042	0.0107	mg/L	0.00042	3.90%
Zn 206.200†	14252.4	0.1279	mg/L	0.00084	0.1279	mg/L	0.00084	0.66%
Sb 206.836†	-35.7	-0.0081	mg/L	0.00076	-0.0081	mg/L	0.00076	9.41%
Pb 220.353†	849.2	0.0805	mg/L	0.00140	0.0805	mg/L	0.00140	1.74%
Cd 226.502†	889.2	-0.0027	mg/L	0.00005	-0.0027	mg/L	0.00005	1.74%
Co 228.616†	681.9	0.0167	mg/L	0.00034	0.0167	mg/L	0.00034	2.01%
Ni 232.003†	849.8	0.0442	mg/L	0.00061	0.0442	mg/L	0.00061	1.37%
Ba 233.527†	21175.1	0.1253	mg/L	0.00078	0.1253	mg/L	0.00078	0.62%
Mn 257.610†	699298.3	0.7474	mg/L	0.00549	0.7474	mg/L	0.00549	0.73%
Cr 267.716†	6566.2	0.0419	mg/L	0.00017	0.0419	mg/L	0.00017	0.41%
Fe 273.955†	924132.3	36.55	mg/L	0.265	36.55	mg/L	0.265	0.73%
Mg 279.077†	259043.2	11.40	mg/L	0.075	11.40	mg/L	0.075	0.66%
V 292.402†	25655.1	0.0639	mg/L	0.00032	0.0639	mg/L	0.00032	0.50%
Al 308.215†	897536.0	22.95	mg/L	0.165	22.95	mg/L	0.165	0.72%
Be 313.107†	4000.0	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	16.54%
Cu 324.752†	16827.7	0.0422	mg/L	0.00025	0.0422	mg/L	0.00025	0.59%
Ag 338.289†	-2907.3	-0.0119	mg/L	0.00014	-0.0119	mg/L	0.00014	1.13%
Na 330.237†	-1138.0	-0.5777	mg/L	0.02409	-0.5777	mg/L	0.02409	4.17%
Ca 227.546†	4707.5	8.762	mg/L	0.0731	8.762	mg/L	0.0731	0.83%
Al RADIAL†	77351.5	22.74	mg/L	0.164	22.74	mg/L	0.164	0.72%
Fe RADIAL†	5305.9	36.30	mg/L	0.395	36.30	mg/L	0.395	1.09%
Ca RADIAL†	36992.4	10.59	mg/L	0.031	10.59	mg/L	0.031	0.30%
K RADIAL†	5923.5	2.892	mg/L	0.0360	2.892	mg/L	0.0360	1.24%
Mg RADIAL†	1648.3	11.11	mg/L	0.110	11.11	mg/L	0.110	0.99%
Na RADIAL†	14590.3	0.5604	mg/L	0.03133	0.5604	mg/L	0.03133	5.59%

Sequence No.: 127
Sample ID: SD 1:5 A 12J0421-05
Analyst: MW
Initial Sample Wt:

Autosampler Location: 105
Date Collected: 10/16/2012 5:13:00 AM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: SD 1:5 A 12J0421-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18152265.4	4.970	mg/L	0.0235				0.47%
Y RADIAL	331664.5	4.918	mg/L	0.0411				0.84%
As 188.979†	1.4	0.0004	mg/L	0.00096	0.0004	mg/L	0.00096	260.69%
Tl 190.801†	6.2	0.0015	mg/L	0.00281	0.0015	mg/L	0.00281	185.54%
Se 196.026†	-7.6	-0.0036	mg/L	0.00572	-0.0036	mg/L	0.00572	160.45%
Zn 206.200†	669.0	0.0061	mg/L	0.00012	0.0061	mg/L	0.00012	2.05%
Sb 206.836†	-0.7	-0.0002	mg/L	0.00123	-0.0002	mg/L	0.00123	780.39%
Pb 220.353†	-8.7	-0.0005	mg/L	0.00118	-0.0005	mg/L	0.00118	257.01%
Cd 226.502†	22.5	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	79.19%
Co 228.616†	9.3	0.0002	mg/L	0.00042	0.0002	mg/L	0.00042	183.63%
Ni 232.003†	0.0	0.0000	mg/L	0.00044	0.0000	mg/L	0.00044	>999.9%
Ba 233.527†	1697.4	0.0100	mg/L	0.00014	0.0100	mg/L	0.00014	1.38%
Mn 257.610†	52926.9	0.0563	mg/L	0.00065	0.0563	mg/L	0.00065	1.16%
Cr 267.716†	12.8	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	210.00%
Fe 273.955†	2328.8	0.0921	mg/L	0.00102	0.0921	mg/L	0.00102	1.11%
Mg 279.077†	122377.4	5.382	mg/L	0.0618	5.382	mg/L	0.0618	1.15%
V 292.402†	39.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	16.19%
Al 308.215†	-99.9	-0.0031	mg/L	0.00138	-0.0031	mg/L	0.00138	45.07%
Be 313.107†	246.4	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	160.57%
Cu 324.752†	343.0	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	279.95%
Ag 338.289†	41.6	-0.0002	mg/L	0.00021	-0.0002	mg/L	0.00021	114.48%
Na 330.237†	81240.9	55.22	mg/L	0.391	55.22	mg/L	0.391	0.71%
Ca 227.546†	18582.9	33.86	mg/L	0.286	33.86	mg/L	0.286	0.84%
Al RADIAL†	-21.3	-0.0062	mg/L	0.00560	-0.0062	mg/L	0.00560	89.56%
Fe RADIAL†	15.1	0.1031	mg/L	0.00777	0.1031	mg/L	0.00777	7.54%
Ca RADIAL†	126216.5	36.12	mg/L	0.169	36.12	mg/L	0.169	0.47%
K RADIAL†	4156.2	2.030	mg/L	0.0028	2.030	mg/L	0.0028	0.14%
Mg RADIAL†	785.9	5.297	mg/L	0.0622	5.297	mg/L	0.0622	1.17%
Na RADIAL†	1375365.6	52.83	mg/L	0.259	52.83	mg/L	0.259	0.49%

Sequence No.: 128 **Autosampler Location: 5**
Sample ID: RL STD **Date Collected: 10/16/2012 5:18:20 AM**
Analyst: MW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: RL STD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18189715.0	4.981	mg/L	0.0288				0.58%
Y RADIAL	333977.0	4.952	mg/L	0.0387				0.78%
As 188.979†	44.3	0.0113	mg/L	0.00184	0.0113	mg/L	0.00184	16.34%
Tl 190.801†	44.4	0.0108	mg/L	0.00132	0.0108	mg/L	0.00132	12.17%
Se 196.026†	19.5	0.0093	mg/L	0.00446	0.0093	mg/L	0.00446	47.98%
Zn 206.200†	811.5	0.0074	mg/L	0.00013	0.0074	mg/L	0.00013	1.73%
Sb 206.836†	45.4	0.0098	mg/L	0.00060	0.0098	mg/L	0.00060	6.10%
Pb 220.353†	50.8	0.0050	mg/L	0.00143	0.0050	mg/L	0.00143	28.71%
Cd 226.502†	1108.2	0.0052	mg/L	0.00011	0.0052	mg/L	0.00011	2.11%
Co 228.616†	219.6	0.0054	mg/L	0.00032	0.0054	mg/L	0.00032	5.89%
Ni 232.003†	83.1	0.0037	mg/L	0.00061	0.0037	mg/L	0.00061	16.33%
Ba 233.527†	1837.8	0.0109	mg/L	0.00008	0.0109	mg/L	0.00008	0.74%
Mn 257.610†	4996.1	0.0053	mg/L	0.00008	0.0053	mg/L	0.00008	1.41%
Cr 267.716†	822.7	0.0053	mg/L	0.00008	0.0053	mg/L	0.00008	1.44%
Fe 273.955†	189.4	0.0075	mg/L	0.00030	0.0075	mg/L	0.00030	4.02%
Mg 279.077†	-9.9	-0.0004	mg/L	0.00093	-0.0004	mg/L	0.00093	215.18%
V 292.402†	1917.1	0.0050	mg/L	0.00014	0.0050	mg/L	0.00014	2.71%
Al 308.215†	-221.4	-0.0057	mg/L	0.00528	-0.0057	mg/L	0.00528	93.34%
Be 313.107†	26111.3	0.0051	mg/L	0.00012	0.0051	mg/L	0.00012	2.34%
Cu 324.752†	1996.2	0.0049	mg/L	0.00007	0.0049	mg/L	0.00007	1.43%
Ag 338.289†	1349.2	0.0055	mg/L	0.00008	0.0055	mg/L	0.00008	1.43%
Na 330.237†	-11.8	-0.0081	mg/L	0.02112	-0.0081	mg/L	0.02112	260.75%
Ca 227.546†	-34.2	-0.0623	mg/L	0.02780	-0.0623	mg/L	0.02780	44.62%
Al RADIAL†	-34.5	-0.0101	mg/L	0.00261	-0.0101	mg/L	0.00261	25.78%
Fe RADIAL†	0.8	0.0056	mg/L	0.01154	0.0056	mg/L	0.01154	207.66%

Ca RADIAL†	-57.9	-0.0166 mg/L	0.00197	-0.0166 mg/L	0.00197	11.86%
K RADIAL†	13.0	0.0063 mg/L	0.01597	0.0063 mg/L	0.01597	252.02%
Mg RADIAL†	0.5	0.0035 mg/L	0.01709	0.0035 mg/L	0.01709	487.80%
Na RADIAL†	-1079.3	-0.0415 mg/L	0.03429	-0.0415 mg/L	0.03429	82.71%

Sequence No.: 129
Sample ID: ICS A
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/16/2012 5:23:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15586863.4	4.268	mg/L	0.0088				0.21%
Y RADIAL	297997.3	4.418	mg/L	0.0198				0.45%
As 188.979†	-101.0	0.0007	mg/L	0.00321	0.0007	mg/L	0.00321	436.15%
Tl 190.801†	-76.3	0.0012	mg/L	0.00210	0.0012	mg/L	0.00210	177.17%
Se 196.026†	-230.0	0.0165	mg/L	0.00602	0.0165	mg/L	0.00602	36.57%
Zn 206.200†	3443.9	0.0131	mg/L	0.00016	0.0131	mg/L	0.00016	1.19%
Sb 206.836†	-42.1	-0.0165	mg/L	0.00325	-0.0165	mg/L	0.00325	19.73%
Pb 220.353†	-428.3	-0.0128	mg/L	0.00172	-0.0128	mg/L	0.00172	13.50%
Cd 226.502†	4387.5	-0.0132	mg/L	0.00010	-0.0132	mg/L	0.00010	0.78%
Co 228.616†	-172.6	-0.0042	mg/L	0.00034	-0.0042	mg/L	0.00034	7.99%
Ni 232.003†	525.8	0.0529	mg/L	0.00515	0.0529	mg/L	0.00515	9.72%
Ba 233.527†	424.6	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013	5.12%
Mn 257.610†	-16478.9	-0.0167	mg/L	0.00023	-0.0167	mg/L	0.00023	1.36%
Cr 267.716†	-1196.9	-0.0076	mg/L	0.00031	-0.0076	mg/L	0.00031	4.01%
Fe 273.955†	4532852.4	179.3	mg/L	0.75	179.3	mg/L	0.75	0.42%
Mg 279.077†	10822712.7	476.0	mg/L	2.30	476.0	mg/L	2.30	0.48%
V 292.402†	19510.3	0.0363	mg/L	0.00022	0.0363	mg/L	0.00022	0.61%
Al 308.215†	19305981.6	493.5	mg/L	1.36	493.5	mg/L	1.36	0.28%
Be 313.107†	-84.1	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	186.07%
Cu 324.752†	-9915.9	-0.0373	mg/L	0.00017	-0.0373	mg/L	0.00017	0.45%
Ag 338.289†	-227.5	-0.0062	mg/L	0.00039	-0.0062	mg/L	0.00039	6.36%
Na 330.237†	-1325.5	0.8848	mg/L	0.04322	0.8848	mg/L	0.04322	4.88%
Ca 227.546†	274940.6	502.1	mg/L	1.83	502.1	mg/L	1.83	0.36%
Al RADIAL†	1744379.2	512.8	mg/L	2.84	512.8	mg/L	2.84	0.55%
Fe RADIAL†	28346.0	194.0	mg/L	1.71	194.0	mg/L	1.71	0.88%
Ca RADIAL†	1679535.8	480.6	mg/L	0.73	480.6	mg/L	0.73	0.15%
K RADIAL†	111.2	0.0543	mg/L	0.02300	0.0543	mg/L	0.02300	42.34%
Mg RADIAL†	72437.9	488.2	mg/L	3.63	488.2	mg/L	3.63	0.74%
Na RADIAL†	7055.9	0.2710	mg/L	0.00958	0.2710	mg/L	0.00958	3.53%

Sequence No.: 130
Sample ID: ICS AB
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/16/2012 5:31:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS AB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15834281.6	4.336	mg/L	0.0127				0.29%
Y RADIAL	303649.6	4.502	mg/L	0.0572				1.27%
As 188.979†	2079.1	0.5542	mg/L	0.00694	0.5542	mg/L	0.00694	1.25%
Tl 190.801†	1971.9	0.5004	mg/L	0.00269	0.5004	mg/L	0.00269	0.54%
Se 196.026†	907.5	0.5585	mg/L	0.00923	0.5585	mg/L	0.00923	1.65%
Zn 206.200†	96864.0	0.8660	mg/L	0.00824	0.8660	mg/L	0.00824	0.95%
Sb 206.836†	2524.1	0.5383	mg/L	0.01314	0.5383	mg/L	0.01314	2.44%
Pb 220.353†	8952.2	0.9035	mg/L	0.01040	0.9035	mg/L	0.01040	1.15%
Cd 226.502†	197653.4	0.8947	mg/L	0.00933	0.8947	mg/L	0.00933	1.04%
Co 228.616†	18742.4	0.4597	mg/L	0.00028	0.4597	mg/L	0.00028	0.06%
Ni 232.003†	23857.0	1.101	mg/L	0.0037	1.101	mg/L	0.0037	0.34%
Ba 233.527†	86978.8	0.5148	mg/L	0.00079	0.5148	mg/L	0.00079	0.15%
Mn 257.610†	426134.2	0.4552	mg/L	0.00461	0.4552	mg/L	0.00461	1.01%
Cr 267.716†	74754.8	0.4774	mg/L	0.00228	0.4774	mg/L	0.00228	0.48%
Fe 273.955†	4539877.0	179.5	mg/L	1.65	179.5	mg/L	1.65	0.92%

Mg 279.077†	10849930.9	477.2 mg/L	0.58	477.2 mg/L	0.58	0.12%
V 292.402†	198813.3	0.5033 mg/L	0.00552	0.5033 mg/L	0.00552	1.10%
Al 308.215†	19207934.9	491.0 mg/L	1.04	491.0 mg/L	1.04	0.21%
Be 313.107†	2487127.6	0.4837 mg/L	0.00709	0.4837 mg/L	0.00709	1.47%
Cu 324.752†	203583.9	0.4836 mg/L	0.00401	0.4836 mg/L	0.00401	0.83%
Ag 338.289†	255669.3	1.035 mg/L	0.0094	1.035 mg/L	0.0094	0.90%
Na 330.237†	-2330.8	0.1892 mg/L	0.02964	0.1892 mg/L	0.02964	15.67%
Ca 227.546†	270210.7	493.4 mg/L	4.71	493.4 mg/L	4.71	0.95%
Al RADIAL†	1742073.8	512.1 mg/L	2.05	512.1 mg/L	2.05	0.40%
Fe RADIAL†	28511.1	195.1 mg/L	4.54	195.1 mg/L	4.54	2.33%
Ca RADIAL†	1685149.2	482.2 mg/L	1.22	482.2 mg/L	1.22	0.25%
K RADIAL†	92.3	0.0451 mg/L	0.00712	0.0451 mg/L	0.00712	15.81%
Mg RADIAL†	72945.5	491.6 mg/L	11.23	491.6 mg/L	11.23	2.29%
Na RADIAL†	7441.9	0.2858 mg/L	0.02335	0.2858 mg/L	0.02335	8.17%

Sequence No.: 131
Sample ID: CCV-11
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/16/2012 5:39:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17879083.0	4.896	mg/L	0.0525				1.07%
Y RADIAL	330160.4	4.895	mg/L	0.0310				0.63%
As 188.979†	929.7	0.2368	mg/L	0.00196	0.2368	mg/L	0.00196	0.83%
Tl 190.801†	1002.4	0.2449	mg/L	0.00673	0.2449	mg/L	0.00673	2.75%
Se 196.026†	500.5	0.2420	mg/L	0.00179	0.2420	mg/L	0.00179	0.74%
Zn 206.200†	274076.2	2.502	mg/L	0.0293	2.502	mg/L	0.0293	1.17%
Sb 206.836†	1149.3	0.2483	mg/L	0.00306	0.2483	mg/L	0.00306	1.23%
Pb 220.353†	2569.0	0.2516	mg/L	0.00178	0.2516	mg/L	0.00178	0.71%
Cd 226.502†	26050.7	0.1214	mg/L	0.00171	0.1214	mg/L	0.00171	1.41%
Co 228.616†	103232.9	2.532	mg/L	0.0252	2.532	mg/L	0.0252	0.99%
Ni 232.003†	54738.9	2.461	mg/L	0.0300	2.461	mg/L	0.0300	1.22%
Ba 233.527†	1700507.7	10.06	mg/L	0.144	10.06	mg/L	0.144	1.43%
Mn 257.610†	2336346.5	2.491	mg/L	0.0318	2.491	mg/L	0.0318	1.28%
Cr 267.716†	153907.2	0.9828	mg/L	0.01297	0.9828	mg/L	0.01297	1.32%
Fe 273.955†	128021.2	5.063	mg/L	0.0619	5.063	mg/L	0.0619	1.22%
Mg 279.077†	558425.2	24.56	mg/L	0.335	24.56	mg/L	0.335	1.36%
V 292.402†	938141.9	2.443	mg/L	0.0292	2.443	mg/L	0.0292	1.20%
Al 308.215†	377537.4	9.650	mg/L	0.1446	9.650	mg/L	0.1446	1.50%
Be 313.107†	1274871.5	0.2479	mg/L	0.00301	0.2479	mg/L	0.00301	1.21%
Cu 324.752†	495620.3	1.208	mg/L	0.0151	1.208	mg/L	0.0151	1.25%
Ag 338.289†	295342.4	1.202	mg/L	0.0145	1.202	mg/L	0.0145	1.21%
Na 330.237†	33328.4	22.70	mg/L	0.349	22.70	mg/L	0.349	1.54%
Ca 227.546†	13217.7	24.11	mg/L	0.381	24.11	mg/L	0.381	1.58%
Al RADIAL†	33173.6	9.752	mg/L	0.0239	9.752	mg/L	0.0239	0.24%
Fe RADIAL†	731.2	5.003	mg/L	0.0162	5.003	mg/L	0.0162	0.32%
Ca RADIAL†	86766.9	24.83	mg/L	0.008	24.83	mg/L	0.008	0.03%
K RADIAL†	9668.8	4.721	mg/L	0.0355	4.721	mg/L	0.0355	0.75%
Mg RADIAL†	3669.2	24.73	mg/L	0.088	24.73	mg/L	0.088	0.35%
Na RADIAL†	640002.4	24.58	mg/L	0.113	24.58	mg/L	0.113	0.46%

Sequence No.: 132
Sample ID: CCB-11
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/16/2012 5:48:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18571302.3	5.085	mg/L	0.0462				0.91%
Y RADIAL	338474.2	5.019	mg/L	0.0589				1.17%
As 188.979†	1.5	0.0004	mg/L	0.00083	0.0004	mg/L	0.00083	216.89%
Tl 190.801†	2.2	0.0005	mg/L	0.00267	0.0005	mg/L	0.00267	502.73%
Se 196.026†	-1.9	-0.0009	mg/L	0.00209	-0.0009	mg/L	0.00209	231.28%

Zn 206.200†	64.4	0.0006 mg/L	0.00010	0.0006 mg/L	0.00010	17.74%
Sb 206.836†	3.2	0.0007 mg/L	0.00119	0.0007 mg/L	0.00119	173.71%
Pb 220.353†	15.1	0.0015 mg/L	0.00181	0.0015 mg/L	0.00181	123.03%
Cd 226.502†	13.8	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	141.32%
Co 228.616†	41.0	0.0010 mg/L	0.00029	0.0010 mg/L	0.00029	29.17%
Ni 232.003†	-20.1	-0.0009 mg/L	0.00096	-0.0009 mg/L	0.00096	106.13%
Ba 233.527†	619.8	0.0037 mg/L	0.00009	0.0037 mg/L	0.00009	2.56%
Mn 257.610†	852.7	0.0009 mg/L	0.00004	0.0009 mg/L	0.00004	4.09%
Cr 267.716†	41.6	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	60.73%
Fe 273.955†	135.5	0.0054 mg/L	0.00031	0.0054 mg/L	0.00031	5.72%
Mg 279.077†	263.8	0.0116 mg/L	0.00052	0.0116 mg/L	0.00052	4.44%
V 292.402†	293.5	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	22.90%
Al 308.215†	77.9	0.0020 mg/L	0.00357	0.0020 mg/L	0.00357	179.26%
Be 313.107†	1326.0	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	16.03%
Cu 324.752†	109.1	0.0003 mg/L	0.00027	0.0003 mg/L	0.00027	100.78%
Ag 338.289†	1747.8	0.0071 mg/L	0.00030	0.0071 mg/L	0.00030	4.19%
Na 330.237†	-27.0	-0.0183 mg/L	0.05496	-0.0183 mg/L	0.05496	300.77%
Ca 227.546†	8.2	0.0150 mg/L	0.05705	0.0150 mg/L	0.05705	381.31%
Al RADIAL†	17.5	0.0052 mg/L	0.00470	0.0052 mg/L	0.00470	91.12%
Fe RADIAL†	-0.9	-0.0061 mg/L	0.01579	-0.0061 mg/L	0.01579	257.48%
Ca RADIAL†	106.7	0.0305 mg/L	0.00254	0.0305 mg/L	0.00254	8.31%
K RADIAL†	-14.9	-0.0073 mg/L	0.03135	-0.0073 mg/L	0.03135	429.83%
Mg RADIAL†	3.1	0.0212 mg/L	0.01836	0.0212 mg/L	0.01836	86.62%
Na RADIAL†	-1051.6	-0.0404 mg/L	0.05564	-0.0404 mg/L	0.05564	137.76%

PREPARATION BENCH SHEET

BJ20719

York Analytical Laboratories, Inc.

Printed: 10/15/2012 4:26:00PM

Matrix: Soil **(No Surrogate)**

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
12J0484-01	Metals, RCRA	10/15/2012 16:2	MW	0.5	50					EPA 3050B	5 day firm
12J0486-01	Metals, Target Analyte	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0486-02	Metals, Target Analyte	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0487-01	Barium by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BJ20719
12J0487-01	Metals, Priority Pollutant	10/15/2012 16:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BJ20719
12J0487-01	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BJ20719
12J0487-01	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BJ20719
12J0487-01	Metals, Target Analyte	10/15/2012 16:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BJ20719
12J0487-01	Metals, RCRA	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-01	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-01	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-02	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-02	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-03	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-03	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-04	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-04	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-05	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-05	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-06	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-06	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-07	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-07	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	

PREPARATION BENCH SHEET

BJ20719

York Analytical Laboratories, Inc.

Printed: 10/15/2012 4:26:00PM

Matrix: Soil

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
12J0488-08	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-08	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-09	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-09	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-10	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-10	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-11	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-11	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-12	Lead by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0488-12	Arsenic by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0489-01	Metals, Priority Pollutant	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0490-01	Metals, Priority Pollutant	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0498-07	Barium by EPA 6010	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
12J0500-02	Metals, RCRA	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
BJ20719-BLK1	QC	10/15/2012 16:2	MW	0.5	50					EPA 3050B	
BJ20719-DUP1	QC	10/15/2012 16:2	MW	0.5	50		12J0487-01			EPA 3050B	
BJ20719-MS1	QC	10/15/2012 16:2	MW	0.5	50	Y12C034	12J0487-01	500		EPA 3050B	
BJ20719-SRM1	QC	10/15/2012 16:2	MW	0.5	50	Y12I025		500		EPA 3050B	

Batch Comments:

York Analytical Laboratories, Inc.

SDG: 12J0486

CLASS: HG

METHOD: EPA SW846-7471

DATA PACKAGE COVER PAGE

EPA SW846-7471

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701

Client Sample Id:	Lab Sample Id:
Langan #048	12J0486-01
Langan #049	12J0486-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Name: Robert Q. Bradley

Date: 10/19/2012 Title: Executive Vice President & Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA SW846-7471

Langan #048

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-01 File ID:

Sampled: 10/12/12 15:00 Prepared: 10/16/12 09:04 Analyzed: 10/17/12 14:06

Solids: 90.49 Preparation: EPA SW846-7471 Initial/Final: 0.2 g / 100 mL

Batch: BJ20736 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.111	1	U	EPA SW846-7471

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA SW846-7471

Langan #049

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-02 File ID:

Sampled: 10/12/12 15:00 Prepared: 10/16/12 09:04 Analyzed: 10/17/12 14:06

Solids: 88.01 Preparation: EPA SW846-7471 Initial/Final: 0.2 g / 100 mL

Batch: BJ20736 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.114	1	U	EPA SW846-7471

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

I Cal Source: Inorganic Ventures Sequence: QBHg101612

C Cal Source: Inorganic Ventures Concentration units: ug/L

Analyte	Initial Calibration TRUE	FOUND	%R(1)	CCV 1 TRUE	FOUND	% R(1)	CCV 4 FOUND	% R(1)
Mercury	3.00	2.89	96	3.00	2.86	95	2.74	91

(1) Control Limits Hg 80-120 %

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

I Cal Source: Inorganic Ventures Sequence: QBHg101612

C Cal Source: Inorganic Ventures Concentration units: ug/L

Analyte	Initial Calibration TRUE	FOUND	%R(1)	CCV 5 TRUE	FOUND	% R(1)	CCV 6 FOUND	% R(1)
Mercury	3.00	2.89	96	3.00	2.76	92	2.65	88

(1) Control Limits Hg 80-120 %

Form 2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701.0

I Cal Source: Inorganic Ventures Sequence: QBHg101612

C Cal Source: Inorganic Ventures Concentration units: ug/L

Analyte	Initial Calibration TRUE	FOUND	%R(1)	CCV 7 TRUE	FOUND	% R(1)		
Mercury	3.00	2.89	96	3.00	2.64	88		

(1) Control Limits Hg 80-120 %

Form 3

BLANKS

Lab Name:	York Analytical Laboratories, Inc	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Preparation Blank Matrix:	Soil	Prep Blank ID:	BJ20736-BLK1
Prep. Blank Conc. Units:	mg/kg	Sequence ID:	QBHg101612

Analyte	Initial Calibration Blank-ug/L		Continuing Calibration Blanks (ug/L)						Preparation Blank		
	Result	C	1	C	4	C	5	C	Result	C	M
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.10	U	CV

Form 3

BLANKS

Lab Name:	York Analytical Laboratories, Inc	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Preparation Blank Matrix:	NA	Prep Blank ID:	NA
Prep. Blank Conc. Units:	NA	Sequence ID:	QBHg101612

Analyte	Initial Calibration Blank-ug/L		Continuing Calibration Blanks (ug/L)								
	Result	C	6	C	7	C					
Mercury	0.20	U	0.20	U	0.20	U					

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA SW846-7471

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Matrix:	Soil		
Batch:	BJ20736	Laboratory ID:	BJ20736-BS1
Preparation:	EPA SW846-7471	Initial/Final:	0.2 g / 100 mL

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. #	QC LIMITS REC.
Mercury	2.96	2.81	94.9	75 - 125

METHOD DETECTION AND REPORTING LIMITS

EPA SW846-7471

Laboratory: York Analytical Laboratories, Inc. **SDG:** 12J0486

Client: Langan Engineering & Environmental Services (NJ) **Project:** 100242701

Matrix: Soil **Instrument:**

Analyte	MDL	MRL	Units
Mercury	0.0940	0.100	mg/kg

FORM IV

PREPARATION BATCH SUMMARY

EPA SW846-7471

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Batch: BJ20736 Batch Matrix: Soil Preparation: EPA SW846-7471

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Langan #048	12J0486-01		10/16/12 09:04	
Langan #049	12J0486-02		10/16/12 09:04	
Blank	BJ20736-BLK1		10/16/12 09:04	
LCS	BJ20736-BS1		10/16/12 09:04	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA SW846-7471

Laboratory: York Analytical Laboratories, Inc.

SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ)

Project: 100242701

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	BJ20736-BS1		10/17/12 14:06
Langan #049	12J0486-02		10/17/12 14:06
Langan #048	12J0486-01		10/17/12 14:06
Blank	BJ20736-BLK1		10/17/12 14:06

QA/QC DATA -SOILS
10/16/2012

STANDARDS DATA			
Description	Units	Absorbance	Blank Corr. Absorbance
0	ug/L	-0.006	
0.5	ug/L	0.297	0.303
1	ug/L	0.532	0.538
2	ug/L	0.997	1.003
3	ug/L	1.384	1.39
4	ug/L	1.691	1.697
SLOPE		**2.3404**	
y-INTERCEPT		**-0.1594**	
CORRELATION		**0.9951**	0.995

QA/QCDATA									
					QC Data				
Sample/QC ID	QA/QC	**INPUT** Sample Wt.(	**INPUT** % Solids	**INPUT** Absorbanc	Blank Corr. Absorbance	Dilution FACTOR	ECOVERY,% RPD	Comment	**RESULT mg/kg**
NPUT LCS Value-->D-060-54	2.96								
LCS for Hg (ug/kg)-D-066	LCS	0.2	100	1.27	1.276	2	95.0	% Accuracy	2.81
12J0466-14,	ike@1.5 mg	0.2	100	1.167	1.173	1	91.0	% Recovery	1.29
12J0466-14,	Unspiked	0.2	100	0.001	0.007	1			-0.08
12J0466-14,	Sample Dup	0.2	100	-0.001	0.005	1			-0.08
12J0466-14,	Sample	0.2	100	0.001	0.007	1	2.9	RPD	-0.08
ICV	ICV			1.302	1.308	1			2.89
ICB	ICB			-0.018	-0.012	1			-0.20
CCV	CCV			1.29	1.296	1			2.86
CCB	CCB			-0.015	-0.009	1			-0.19
CCV	CCV			1.248	1.254	1			2.76
CCB	CCB			-0.011	-0.005	1			-0.19
CCV	CCV			1.289	1.295	1			2.86
CCB	CCB			-0.007	-0.001	1			-0.18
CCV	CCV			1.238	1.244	1			2.74
CCB	CCB			-0.013	-0.007	1			-0.19
CCV	CCV			1.248	1.254	1			2.76
CCB	CCB			-0.016	-0.01	1			-0.20
CCV	CCV			1.201	1.207	1			2.65
CCB	CCB			-0.009	-0.003	1			-0.18
CCV	CCV			1.197	1.203	1			2.64
CCB	CCB			-0.028	-0.022	1			-0.22

QA/QC DATA -SOILS
10/16/2012

STANDARDS DATA			
Description	Units	Absorbance	Blank Corr. Absorbance
0	ug/L	-0.006	
0.5	ug/L	0.297	0.303
1	ug/L	0.532	0.538
2	ug/L	0.997	1.003
3	ug/L	1.384	1.39
4	ug/L	1.691	1.697
SLOPE		**2.3404**	
y-INTERCEPT		**-0.1594**	
CORRELATION		**0.9951**	0.995

QA/QCDATA									
					QC Data				
Sample/QC ID	QA/QC	**INPUT** Sample Wt.(	**INPUT** % Solids	**INPUT** Absorbanc	Blank Corr. Absorbance	Dilution FACTOR	ECOVERY,% RPD	Comment	**RESULT mg/kg**
NPUT LCS Value-->D-060-54	2.96								
LCS for Hg (ug/kg)-D-066	LCS	0.2	100	1.27	1.276	2	95.0	% Accuracy	2.81
12J0466-14,	ike@1.5 mg	0.2	100	1.167	1.173	1	91.0	% Recovery	1.29
12J0466-14,	Unspiked	0.2	100	0.001	0.007	1			-0.08
12J0466-14,	Sample Dup	0.2	100	-0.001	0.005	1			-0.08
12J0466-14,	Sample	0.2	100	0.001	0.007	1	2.9	RPD	-0.08
ICV	ICV			1.302	1.308	1			2.89
ICB	ICB			-0.018	-0.012	1			-0.20
CCV	CCV			1.147	1.153	1			2.53
CCB	CCB			-0.021	-0.015	1			-0.21
CCV	CCV			1.217	1.223	1			2.69
CCB	CCB			-0.003	0.003	1			-0.17
CCV	CCV			1.354	1.36	1			3.01
CCB	CCB			-0.047	-0.041	1			-0.27
CCV	CCV				0.006	1			-0.16
CCB	CCB				0.006	1			-0.16
CCV	CCV				0.006	1			-0.16
CCB	CCB				0.006	1			-0.16
CCV	CCV				0.006	1			-0.16
CCB	CCB				0.006	1			-0.16
CCV	CCV				0.006	1			-0.16
CCB	CCB				0.006	1			-0.16

YORK ANALYTICAL LABORATORIES, INC.

Reviewed by:_____

Mercury Cold Vapor Atomic Absorption Log

Date: 10/16/12 Batch ID: QBHg 101612 Analyst: AH

Sample ID	Absorbance @ 253.7nm	Wt.(g.) or Volume (mls) used	Dilution Factor	Rpt #	Cup #	Comments
System Blank						
Standard 0.5						STD LOT No.: HGSTDS001 101612
Standard 1.0						STD LOT No.: HGSTDS001
Standard 2.0						STD LOT No.: HGSTDS001
Standard 5.0						STD LOT No.: HGSTDS001
Standard 10.0						STD LOT No.: HGSTDS001
Initial Calibration Verification (ICV)	1.502			2036	90	
Initial Calibration Blank (ICB)	-0.018				91	
Laboratory Control Sample (LCS)-Waters	1.294				92	
Laboratory Control Sample (LCS)-Soils		0.2g	1:1		—	SOR 3-066-540
Continuing Calibration Verification (CCV)	1.290				93	STD LOT No.: HGSTDS001 101612
Continuing Calibration Blank (CCB)	-0.015				94	
Batch Preparation Blank (PBLK)-1	-0.012				95	
Sample- 12J0460-02	-0.027	100 mls			96	Water BJ20732
Sample- -05	-0.036				97	
Sample- -06	-0.007				98	
Sample- -07	-0.008				99	
Sample- -09	-0.006				100	
Sample- 12J0466-26	-0.006			2037	1	
Sample- 12J0497-01	-0.007				2	
Sample- DUP -01	0.004				3	
Sample- SPK -01	1.209				4	
CCV	1.248				5	STD LOT No.: HGSTDS001 101612
CCB	-0.011				6	
Sample- 12J0497-02	-0.052	100 mls			7	Water BJ20732
Sample- -03	-0.002				8	
Sample- -04	-0.003				9	
Sample- -05	-0.007				10	
Sample- -06	-0.001				11	
Sample- 12J0501-01	-0.014				12	
Sample- 12J0497-06 DISS	-0.005				13	BJ20733
Sample- 12J0501-01	-0.008				14	
Sample- DUP -01	-0.006				15	
Sample- SPK -01	1.188				16	
CCV	1.289				17	STD LOT No.: HGSTDS001 101612
CCB	-0.007				18	

YORK ANALYTICAL LABORATORIES, INC.

Reviewed by:_____

Mercury Cold Vapor Atomic Absorption Log

Date: 10/16/12 Batch ID: QBHg 101612 Analyst: AA

Sample ID	Absorbance @ 253.7nm	Wt.(g.) or Volume (mls) used	Dilution Factor	Rpt #	Cup #	Comments
System Blank						
Standard 0.5						STD LOT No.: HGSTDS001 101612
Standard 1.0						STD LOT No.: HGSTDS001
Standard 2.0						STD LOT No.: HGSTDS001
Standard 5.0						STD LOT No.: HGSTDS001
Standard 10.0						STD LOT No.: HGSTDS001
Initial Calibration Verification (ICV)						
Initial Calibration Blank (ICB)						
Laboratory Control Sample (LCS)-Waters	1.242			2037	19	
Laboratory Control Sample (LCS)-Soils	1.193	0.2g	1:1		20	SOIL B-068-540
Continuing Calibration Verification (CCV)						STD LOT No.: HGSTDS001 101612
Continuing Calibration Blank (CCB)						
~~Batch Preparation Blank (PBLK)-1~~ 1250450-01	-0.023	100 mls		NJ REDASPA	21	Water BJ20734
Sample- SUP -01	-0.028				22	
Sample- SPK -01	1.168				23	
Sample- 1250481-01	-0.030			NJ REDASPA	24	TCLP BJ20735
Sample- SUP -01	-0.031				25	
Sample- SPK -01	1.205				26	
Sample- -02	-0.020				27	
Sample- -03	-0.034				28	
Sample- -04	-0.010				29	
Sample- 1250489-01	-0.013				30	
CCV	1.238				31	STD LOT No.: HGSTDS001 101612
CCB	-0.013				32	
Sample- 1250496-01	-0.036	100 mls			33	TCLP BJ20735
Sample- 1250492-03	-0.019				34	
Sample- 1250493-03	-0.033				35	
Sample- 1250495-07	-0.019				36	
Sample- -08	-0.054				37	
Sample- -09	-0.007				38	
Sample- 1250491-01	-0.013				39	
Sample- 1250500-01	-0.011				40	
Sample- BLANK (SOIL)	-0.008	0.2g			41	SOIL BJ20736
Sample- 1250406-57	-0.003			RCP	42	
CCV	1.248				43	STD LOT No.: HGSTDS001 101612
CCB	-0.016				44	

YORK ANALYTICAL LABORATORIES, INC.

Reviewed by:_____

Mercury Cold Vapor Atomic Absorption Log

Date: 10/16/12 Batch ID: QBHg 101612 Analyst: AA

Sample ID	Absorbance @ 253.7nm	Wt.(g.) or Volume (mls) used	Dilution Factor	Rpt #	Cup#	Comments
System Blank						
Standard 0.5						STD LOT No.: HGSTDS001 101612
Standard 1.0						STD LOT No.: HGSTDS001
Standard 2.0						STD LOT No.: HGSTDS001
Standard 5.0						STD LOT No.: HGSTDS001
Standard 10.0						STD LOT No.: HGSTDS001
Initial Calibration Verification (ICV)						STD LOT No.: HGSTDS001
Initial Calibration Blank (ICB)						
Laboratory Control Sample (LCS)-Waters						
Laboratory Control Sample (LCS)-Soils	1.270	0.2g	1:1	2037	45	Soil D-066-540
Continuing Calibration Verification (CCV)						STD LOT No.: HGSTDS001 101612
Continuing Calibration Blank (CCB)						
Batch Preparation Blank (PBLK) 1 1250466-58	0.050	0.2g		RCP	46	Soil BJ20736
Sample- -59	-0.070				47	
Sample- -60	0.069				48	
Sample- -63	0.029				49	
Sample- 1250455-01	0.038				50	Sludge
Sample- 1250466-14	0.001				51	Soil
Sample- Dup -14	-0.001				52	
Sample- Spk -14	1.167				53	
Sample- -16	-0.001				54	
Sample- -18	-0.003				55	
CCV	1.201				56	STD LOT No.: HGSTDS001 101612
CCB	-0.009				57	
Sample- 1250466-20	-0.007	0.2g			58	Soil BJ20736
Sample- -22	0.060				59	
Sample- -24	-0.027				60	
Sample- -25	-0.031				61	
Sample- 1250484-01	-0.138				62	
Sample- 1250486-01	-0.019			ASP B	63	
Sample- -02	-0.002				64	
Sample- 1250487-01	-0.041				65	
Sample- 1250489-01	0.019				66	
Sample- 1250490-01	-0.044				67	
CCV	1.197				68	STD LOT No.: HGSTDS001 101612
CCB	-0.128				69	

PREPARATION BENCH SHEET

BJ20736

York Analytical Laboratories, Inc.

Printed: 10/16/2012 9:07:25AM

Matrix: Soil **(No Surrogate)**

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
12J0406-57	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0406-58	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0406-59	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0406-60	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0406-63	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0455-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-14	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-16	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-18	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-20	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-22	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-24	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0466-25	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0484-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	5 day firm
12J0486-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0486-02	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0487-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0489-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0490-01	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
12J0518-05	Mercury by 7470/7471	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
BJ20736-BLK1	QC	10/16/2012 09:0	AA	0.2	100					EPA SW846-7471	
BJ20736-BS1	QC	10/16/2012 09:0	AA	0.2	100	Y10D006		0.2		EPA SW846-7471	
BJ20736-DUP1	QC	10/16/2012 09:0	AA	0.2	100		12J0466-14			EPA SW846-7471	

PREPARATION BENCH SHEET

BJ20736

York Analytical Laboratories, Inc.

Printed: 10/16/2012 9:07:25AM

Matrix: Soil

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
BJ20736-MS1	QC	10/16/2012 09:0	AA	0.2	100	Y11G025	12J0466-14	0.2		EPA SW846-7471	

Batch Comments:

80	5:31:50 PM	80	S80	2.48	ppb	1.178	0.005
81	5:34:26 PM	81	S81	0.08	ppb	0.048	0.004
82	5:35:34 PM	82	S82	0.09	ppb	0.049	0.005
83	5:38:22 PM	83	S83	0.15	ppb	0.087	0.006
84	5:39:26 PM	84	S84	0.16	ppb	0.095	0.007
85	5:40:32 PM	85	S85	0.04	ppb	0.019	0.007
86	5:41:40 PM	86	S86	0.24	ppb	0.141	0.008
87	5:42:49 PM	87	S87	0.01	ppb	-0.003	0.009
88	5:44:39 PM	88	S88	2.41	ppb	1.153	0.012
89	5:46:40 PM	89	S89	-0.01	ppb	-0.020	0.002
90	11:04:51 AM	90	S90	2.81	ppb	1.302	0.008
91	11:08:46 AM	91	S91	-0.01	ppb	-0.018	0.006
92	11:10:29 AM	92	S92	2.79	ppb	1.294	0.008
93	11:13:15 AM	93	S93	2.78	ppb	1.290	0.008
94	11:16:43 AM	94	S94	0.00	ppb	-0.015	0.004
95	11:17:49 AM	95	S95	0.00	ppb	-0.012	0.003
96	11:20:01 AM	96	S96	-0.02	ppb	-0.027	0.008
97	11:57:15 AM	97	S97	-0.04	ppb	-0.036	0.007
98	11:58:28 AM	98	Std1-Blank	0.00	ppb	-0.007	0.002
99	11:59:45 AM	99	Std2-Max	0.00	ppb	-0.008	0.002
100	12:00:53 PM	100	Std3	0.00	ppb	-0.006	0.003
101	12:03:46 PM	0		No Sample Available			

Energy: Sample: 2.576 Background: 4.239
End of Report # 2036 No Sample Available

Report # 2037 Version 3.94C 12:03:47 PM Tue Oct 16, 2012
Sample Grp: TEST Meth: Hydride/Vapor Lamp 1
Anl: Hg-CV-253.7 Lamp: Hg Varsal Wavl: 253.7 nm Slit: 0.7nm
D2 Bkgnd Compensation DC Suppr: On
Data Time:160mS Ave HCL Curr: 0.7 mA Min HCL Curr: 0.2mA Bkg Gain: 1/32
Peak HCL Curr: 2.4 mA
Max Conc: 4.00 ppb Conc Coef: 1.54924 ppb
C2: 0.297274 C3: 0.000000 C4: 0.000000 Abs-Sec at Conc=0: -0.006265
Energy: Sample: 2.576 Background: 4.239

Ref	Time	Cup	Sample	Concentration		Abs-Secs	Pk Bkg Ab
1	12:04:40 PM	1	S1	0.00	ppb	-0.006	0.003
2	12:06:59 PM	2	S2	0.00	ppb	-0.007	0.003
3	12:10:05 PM	3	S3	0.02	ppb	0.004	0.000
4	12:13:35 PM	4	S4	2.56	ppb	1.209	0.000
5	12:15:43 PM	5	S5	2.67	ppb	1.248	0.004
6	12:18:42 PM	6	S6	0.00	ppb	-0.011	0.001
7	12:33:46 PM	7	S7	-0.06	ppb	-0.052	0.007
8	12:35:22 PM	8	S8	0.01	ppb	-0.002	0.001
9	12:36:51 PM	9	S9	0.00	ppb	-0.003	0.000
10	12:38:12 PM	10	S10	0.00	ppb	-0.007	0.001
11	12:40:19 PM	11	S11	0.01	ppb	-0.001	0.000
12	12:42:01 PM	12	S12	0.00	ppb	-0.004	0.001
13	12:45:40 PM	13	S13	0.00	ppb	-0.005	0.001
14	12:47:10 PM	14	S14	0.00	ppb	-0.008	0.001
15	12:48:09 PM	15	S15	0.00	ppb	-0.006	0.001
16	12:49:32 PM	16	S16	2.51	ppb	1.188	0.000
17	12:51:50 PM	17	S17	2.78	ppb	1.289	0.002
18	12:54:43 PM	18	S18	0.00	ppb	-0.007	0.001
19	12:56:20 PM	19	S19	2.65	ppb	1.242	0.006
20	12:58:54 PM	20	S20	2.52	ppb	1.193	0.005
21	1:01:31 PM	21	S21	-0.02	ppb	-0.023	0.007
22	1:02:24 PM	22	S22	-0.02	ppb	-0.028	0.007
23	1:03:53 PM	23	S23	2.45	ppb	1.168	0.005
24	1:07:05 PM	24	S24	-0.03	ppb	-0.030	0.007
25	1:08:05 PM	25	S25	-0.03	ppb	-0.031	0.006
26	1:10:01 PM	26	S26	2.55	ppb	1.205	0.003
27	1:12:19 PM	27	S27	-0.01	ppb	[illegible]	0.007
28	1:13:29 PM	28	S28	-0.03	ppb	-0.034	0.007
29	1:14:44 PM	29	S29	0.00	ppb	-0.010	0.004

31	1:17:26 PM	31	S31	2.64	ppb	1.238	0.004
32	1:20:40 PM	32	S32	0.00	ppb	-0.013	0.001
33	1:21:50 PM	33	S33	-0.03	ppb	-0.036	0.005
34	1:22:55 PM	34	S34	-0.01	ppb	-0.019	0.004
35	1:24:08 PM	35	S35	-0.03	ppb	-0.033	0.002
36	1:26:03 PM	36	S36	-0.06	ppb	-0.049	0.010
37	1:27:07 PM	37	S37	-0.06	ppb	-0.054	0.008
38	1:30:21 PM	38	S38	0.00	ppb	-0.007	0.003
39	1:34:29 PM	39	S39	0.00	ppb	-0.013	0.000
40	1:35:38 PM	40	S40	0.00	ppb	-0.011	0.000
41	1:36:32 PM	41	S41	0.00	ppb	-0.008	0.000
42	1:37:25 PM	42	S42	0.00	ppb	-0.003	0.000
43	2:16:49 PM	43	S43	2.67	ppb	1.248	0.005
44	2:19:16 PM	44	S44	0.00	ppb	-0.016	0.003
45	2:21:00 PM	45	S45	2.73	ppb	1.270	0.005
46	2:42:56 PM	46	S46	-0.06	ppb	-0.050	0.011
47	3:01:33 PM	47	S47	-0.09	ppb	-0.070	0.014
48	3:14:26 PM	48	S48	0.12	ppb	0.069	0.000
49	3:35:17 PM	49	S49	0.06	ppb	0.029	0.002
50	3:36:59 PM	50	S50	0.07	ppb	0.038	0.002

Report 2037 continued Page 2

Ref	Time	Cup	Sample	Concentration		Abs-Secs	Pk Bkg Ab
51	3:47:20 PM	51	S51	0.01	ppb	0.001	0.000
52	3:48:13 PM	52	S52	0.01	ppb	-0.001	0.000
53	3:49:58 PM	53	S53	2.45	ppb	1.167	0.000
54	3:59:22 PM	54	S54	0.01	ppb	-0.001	0.002
55	4:00:43 PM	55	S55	0.00	ppb	-0.003	0.003
56	4:02:50 PM	56	S56	2.54	ppb	1.201	0.005
57	4:06:21 PM	57	S57	0.00	ppb	-0.009	0.002
58	4:09:01 PM	58	S58	0.00	ppb	-0.007	0.004
59	4:10:12 PM	59	S59	0.11	ppb	0.060	0.004
60	4:11:27 PM	60	S60	-0.02	ppb	-0.027	0.005
61	4:13:51 PM	61	S61	-0.03	ppb	-0.031	0.004
62	4:15:04 PM	62	S62	-0.04	ppb	-0.038	0.004
63	4:18:16 PM	63	S63	-0.01	ppb	-0.019	0.007
64	4:19:22 PM	64	S64	0.01	ppb	-0.002	0.005
65	4:20:31 PM	65	S65	-0.04	ppb	-0.041	0.005
66	4:21:39 PM	66	S66	0.04	ppb	0.019	0.005
67	4:22:57 PM	67	S67	-0.05	ppb	-0.044	0.006
68	4:24:34 PM	68	S68	2.53	ppb	1.197	0.007
69	4:29:44 PM	69	S69	-0.02	ppb	-0.028	0.008
70	4:31:45 PM	70	S70	2.44	ppb	1.161	0.009
71	4:34:08 PM	71	S71	0.00	ppb	-0.015	0.009
72	4:35:03 PM	72	S72	-0.03	ppb	-0.033	0.010
73	4:50:47 PM	73	S73	-0.08	ppb	-0.063	0.012
74	4:51:58 PM	74	S74	-0.08	ppb	-0.064	0.010
75	4:53:08 PM	75	S75	-0.08	ppb	-0.067	0.012
76	4:54:15 PM	76	S76	-0.08	ppb	-0.068	0.012
77	4:55:25 PM	77	S77	-0.08	ppb	-0.068	0.012
78	4:57:25 PM	78	S78	-0.09	ppb	-0.069	0.012
79	4:58:34 PM	79	S79	0.03	ppb	0.016	0.002
80	5:00:49 PM	80	S80	3.29	ppb	1.468	0.000
81	5:03:53 PM	81	S81	2.40	ppb	1.147	0.003
82	5:07:27 PM	82	S82	-0.01	ppb	-0.021	0.002
83	5:19:47 PM	83	S83	0.00	ppb	-0.010	0.006
84	5:42:35 PM	84	S84	0.02	ppb	0.006	0.009
85	5:43:48 PM	85	S85	0.02	ppb	0.003	0.007
86	5:44:52 PM	86	S86	0.04	ppb	0.017	0.006
87	5:46:01 PM	87	S87	0.18	ppb	0.109	0.007
88	5:53:13 PM	88	S88	-0.07	ppb	-0.059	0.011
89	5:54:13 PM	89	S89	-0.07	ppb	-0.058	0.010
90	5:56:03 PM	90	S90	2.48	ppb	[illegible]	0.010
91	5:58:21 PM	91	S91	0.02	ppb	0.009	0.009
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

93	6:00:37 PM	93	S93	2.00 ppb	1.217	0.017
94	6:11:03 PM	94	S94	0.01 ppb	-0.003	0.002
95	6:12:35 PM	95	S95	2.76 ppb	1.282	0.008
96	6:15:32 PM	96	S96	0.00 ppb	-0.009	0.005
97	6:16:38 PM	97	S97	0.02 ppb	0.009	0.003
98	6:17:55 PM	98	Std1-Blank	-0.01 ppb	-0.020	0.005
99	6:19:09 PM	99	Std2-Max	0.00 ppb	-0.007	0.006
100	6:20:31 PM	100	Std3	2.96 ppb	1.354	0.004
101	6:21:10 PM	0		No Sample Available		

Energy: Sample: 2.618 Background: 4.286
End of Report # 2037 No Sample Available

Report # 2038 Version 3.94C 6:21:11 PM Tue Oct 16, 2012
Sample Grp: TEST Meth: Hydride/Vapor Lamp 1
Anl: Hg-CV-253.7 Lamp: Hg Varsal Wavl: 253.7 nm Slit: 0.7nm
D2 Bkgnd Compensation DC Suppr: On
Data Time:160mS Ave HCL Curr: 0.7 mA Min HCL Curr: 0.2mA Bkg Gain: 1/32
Peak HCL Curr: 2.4 mA
Max Conc: 4.00 ppb Conc Coef: 1.54924 ppb
C2: 0.297274 C3: 0.000000 C4: 0.000000 Abs-Sec at Conc=0: -0.006265
Energy: Sample: 2.618 Background: 4.286

Ref	Time	Cup	Sample	Concentration	Abs-Secs	Pk Bkg Ab
1	6:22:04 PM	1	S1	-0.05 ppb	-0.047	0.002

York Analytical Laboratories, Inc.

SDG: 12J0486

CLASS: WET

METHOD: SM 2540G

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701

Client Sample Id:	Lab Sample Id:
Langan #048	12J0486-01
Langan #049	12J0486-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Robert Q. Bradley

Name: Robert Q. Bradley

Date: 10/19/2012

Title: Executive Vice President & Laboratory Director

METHOD DETECTION AND REPORTING LIMITS

SM 2540G

Laboratory: York Analytical Laboratories, Inc. **SDG:** 12J0486

Client: Langan Engineering & Environmental Services (NJ) **Project:** 100242701

Matrix: Soil **Instrument:**

Analyte	MDL	MRL	Units
% Solids	0.100	0.100	%

FORM I

INORGANIC ANALYSIS DATA SHEET

SM 2540G

Langan #048

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-01 File ID:

Sampled: 10/12/12 15:00 Prepared: 10/17/12 09:50 Analyzed: 10/17/12 09:50

Solids: 90.49 Preparation: % Solids Prep Initial/Final: 5 g / 5 mL

Batch: BJ20751 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

Langan #049

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Matrix: Soil Laboratory ID: 12J0486-02 File ID:

Sampled: 10/12/12 15:00 Prepared: 10/17/12 09:50 Analyzed: 10/17/12 09:50

Solids: 88.01 Preparation: % Solids Prep Initial/Final: 5 g / 5 mL

Batch: BJ20751 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	88.0	1		SM 2540G

FORM IV

PREPARATION BATCH SUMMARY

SM 2540G

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Batch: BJ20751 Batch Matrix: Soil Preparation: % Solids Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Langan #048	12J0486-01		10/17/12 09:50	
Langan #049	12J0486-02		10/17/12 09:50	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM 2540G

Laboratory:	York Analytical Laboratories, Inc.	SDG:	12J0486
Client:	Langan Engineering & Environmental Services (NJ)	Project:	100242701
Sequence:		Instrument:	
		Calibration:	

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Langan #049	12J0486-02		10/17/12 09:50
Langan #048	12J0486-01		10/17/12 09:50

HOLDING TIME SUMMARY

SM 2540G

Laboratory: York Analytical Laboratories, Inc. SDG: 12J0486

Client: Langan Engineering & Environmental Services (NJ) Project: 100242701

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Langan #048	10/12/12 15:00	10/12/12 18:00	10/17/12 09:50	4.79	28.00	10/17/12 09:50	4.79	28.00	
Langan #049	10/12/12 15:00	10/12/12 18:00	10/17/12 09:50	4.79	28.00	10/17/12 09:50	4.79	28.00	

Date: 10/16/12

Analyst: AD

Percent Moisture--Soils

Batch ID	Sample ID	Tare Wt (g)	Gross Wt (g)	Dry Gross Wt (g)	% Moisture	% Solids
BJ20751	12J0433-01	1.3256	5.2197	4.5382		82.5
	435-01	1.3318	6.2317	5.6140		87.4
	02	1.3263	7.1536	6.4788		88.4
	03	1.3250	6.1414	5.6799		90.4
	04	1.3192	6.9366	6.5297		92.8
	05	1.3319	7.6031	6.8087		87.3
	06	1.3399	8.2894	7.4566		88.0
	447-56	1.3275	5.7968	4.9806		81.7
	-57	1.3265	4.5692	4.1050		85.7
	-58	1.3174	5.4322	4.6993		82.2
	-59	1.3361	3.7392	2.7156		57.4
	-70	1.3233	5.3082	4.7168		85.2
	-72	1.3264	4.9139	4.2854		82.5
	486-01	1.3244	8.8624	8.1459		90.5
	02	1.3251	6.2638	5.6716		88.0
	518-01	1.3282	8.5302	7.9978		92.6
	02	1.3278	9.3268	8.7994		93.4
	03	1.3267	9.4344	8.7820		92.0
	04	1.3302	7.7962	7.2557		91.6
	05	1.3165	8.9041	8.3303		92.4
	dup 486-01	1.3241	5.6267	5.2432		91.1

Calculations: % Moisture = $\frac{\text{Net Wt as Received (g) - Dry Solids Wt (g)}}{\text{Net Wt as Received (g)}}$

% Solids = 100 - % Moisture

APPENDIX D

Soil Disposal Documentation

LANGAN

7 September 2012

Douglas Birkmire
Impact Environmental, LLC
170 Keyland Court
Bohemia, New York 11716

Re: Soil Disposal Acceptance Documentation
Lincoln Park, New Jersey Facility
508 West 24th Street
New York, New York
NYCOER BCP Site No. 12CBCP044M
Langan Project No.: 100242701

Dear Mr. Birkmire:

This letter is being provided by Steven A. Ciambruschini of Langan as the Qualified Environmental Professional (QEP) for the above referenced job which is enrolled in the New York City Office of Environmental Remediation (NYCOER) Brownfield Cleanup Program (Site No. 12CBCP042M). The Lincoln Park West Landfill Closure/Redevelopment Project, Lincoln Park, NJ (NJDEP Permit No. 0906-07-0009.2) has been identified as the accepting facility for approximately 12,500 cubic yards of the non-hazardous impacted fill material and un-impacted native material that will be removed from the above referenced site. It is our understanding that the material will be used at the above referenced facility as fill material. The following is a list of the investigation activities that have been conducted and reviewed by your facility, a copy of the results tables from each of these investigations is provided as an attachment to this letter:

- Langan Remedial Investigation Report, dated 15 February 2012;
- Langan Remedial Action Work Plan, dated 2 March 2012.

As documented in the above referenced reports, the fill material is impacted with non-hazardous levels of metals that meets the New Jersey Department of Environmental Protection Residential Direct Contact Site Remediation Standards. We request that you provide us a letter stating that you have reviewed the provided data and that based on the analytical results your facility is licensed and permitted as a suitable disposal facility for all of the material to be removed from the site. Additionally, in accordance with the above referenced facility permits, all pertinent documentation supporting the disposal of this material will be provided.

Please call with any questions you have regarding this letter (201.794.6900)

Sincerely,
Langan Engineering and Environmental Services, Inc.

Steven A. Ciambruschini, P.G., L.E.P.
Senior Associate / Vice President

SAC:CM:kn
Enclosure(s): Remedial Investigation Tables

cc: Joseph Flackowicz - Tamarkin
Mark Seel, Chris McMahon – Langan
Phillip Evangalista – Triton Construction

NJ Certificate of Authorization No. 24GA27996400
\\langan.com\data\EP\data7\100242701\Engineering Data\Environmental\Correspondence\Disposal Facility Letter\Lincoln Park - Disposal Facility Acceptance Letter.docx

Table 3
Soil Analytical Results
508 West 24th Street
New York, New York

Sample Grid Identifiers:		SUBPART 375-6 (Revised Brownfields) #				LB-1	LB-1	LB-1	LB-2	LB-2	LB-2	LB-3	LB-3	LB-3	LB-4	DUP-1 (LB-4)	LB-4	LB-4	LB-5	LB-5	LB-5	LB-6	LB-6	LB-6
Langan Sample Number:			RESTRICTED USE SOIL CLEANUP OBJECTIVES			017	020	021	09	025	010	012	014	015	022	026	023	024	001	002	003	005	007	015
Laboratory Sample Number:		UNRESTRICTED USE OBJECTIVES	Protection of Public Health		Protection of Groundwater	JA94991-1	JA94991-2	JA94991-3	JA94786-7	JA94991-7	JA94786-8	JA94786-9	JA94786-10	JA94786-11	JA94991-4	JA94991-8	JA94991-5	JA94991-6	JA94786-1	JA94786-2	JA94786-3	JA94786-4	JA94786-5	JA94786-6
Sampling Date:			Residential	Restricted - Residential		12/15/2011	12/15/2011	12/15/2011	12/14/2011	12/15/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/15/2011	12/15/2011	12/15/2011	12/15/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011
Sampling Depth (ft):						1-3	9-11	14-16	1-3	9-11	14-16	1-3	9-11	14-16	1-3	1-3	9-11	16-18	1-3	9-11	13-15	1-3	9-11	14-16
Units:	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs)																								
Acetone (2-Propanone)	67-64-1	0.05	100	100	0.05	ND	ND	0.0262	ND	ND	0.0219	ND	ND	ND	ND	ND	ND	0.0246	ND	ND	0.0165	ND	ND	0.0316
Benzene	71-43-2	0.06	2.9	4.8	0.06	ND	ND	ND	ND	0.00051 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (Methyl ethyl ketone)(MEK)	78-93-3	0.12	100	100	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J
Carbon disulfide	75-15-0	---	---	---	---	ND	ND	ND	ND	ND	0.00069 J	ND	ND	0.00089 J	ND	ND	ND	0.0026 J	ND	ND	0.0003 J	ND	ND	0.0019 J
Chloroform	67-66-3	0.37	10	49	0.037	ND	ND	ND	ND	ND	ND	ND	0.0036 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	100-41-4	1	30	41	1	ND	ND	ND	ND	ND	ND	ND	ND	0.00025 J	ND	ND	ND	0.00033 J	ND	ND	ND	ND	ND	ND
Cumene (Isopropyl Benzene)	98-82-8	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.369	0.00029 J	ND	ND	ND
Methyl Cyclohexane	108-87-2	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0272 J	ND	ND	ND	ND
Methylene chloride(Dichloromethane)	75-09-2	0.05	51	100	0.05	0.0028 J	ND	ND	ND	0.0028 J	0.0039 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023 J	ND	ND	ND
m,p-Xylene		---	---	---	---	ND	ND	0.00052 J	ND	ND	0.00048 J	ND	ND	0.0007 J	ND	ND	0.00039 J	0.00094 J	ND	ND	0.00059 J	ND	ND	ND
Total TICs, Volatile						0	0	0	0	0	0.0021 J	0	0.0099 J	0	0	0	0	0	0	174.7 J	0.0248 J	0	0	0
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)																								
Acenaphthene	83-32-9	20	100	100	98	ND	ND	ND	0.0429	0.0224 J	0.0585	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	100	100	100	107	ND	ND	ND	0.0271 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	100	100	100	1,000	ND	ND	ND	0.163	0.0581	ND	ND	ND	ND	ND	0.0171 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	1	1	1	1	ND	ND	ND	0.441	0.187	ND	ND	ND	ND	0.0229 J	0.0342	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	1	1	1	22	ND	ND	ND	0.342	0.192	ND	ND	ND	ND	0.0183 J	0.0289 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	1	1	1	1.7	ND	ND	ND	0.382	0.176	ND	ND	ND	ND	0.0154 J	0.0204 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	100	100	100	1,000	ND	ND	ND	0.214	0.183	ND	ND	ND	ND	ND	0.0194 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.8	1	3.9	1.7	ND	ND	ND	0.23	0.145	ND	ND	ND	ND	0.0129 J	0.0256 J	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	85-68-7	---	---	---	---	ND	ND	ND	ND	0.171	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	---	---	---	---	ND	ND	ND	0.0491 J	0.0297 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	1	1	3.9	1	ND	ND	ND	0.444	0.191	ND	ND	ND	ND	0.0186 J	0.0301 J	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzia,h)anthracene	53-70-3	0.33	0.33	0.33	1,000	ND	ND	ND	0.0829	0.0436	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	7	14	59	210	ND	ND	ND	0.0285 J	0.0137 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	117-81-7	---	---	---	---	ND	ND	0.0663 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	117-81-7	---	---	---	---	ND	0.0561 J	0.0584 J	0.11	0.0634 J	0.216	ND	ND	0.0632 J	0.095	ND	ND	0.0548 J	0.064 J	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	100	100	100	1,000	ND	ND	ND	0.893	0.289	ND	ND	ND	ND	0.0463	0.0631	ND	ND	0.0169 J	ND	ND	ND	ND	ND
Fluorene	86-73-7	30	100	100	386	ND	ND	ND	0.0447	0.0173 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0419	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	8.2	ND	ND	ND	0.197	0.127	ND	ND	ND	ND	ND	0.0187 J	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	12	100	100	12	ND	ND	ND	0.0165 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	100	100	100	1,000	ND	ND	ND	0.689	0.285	0.0455	ND	ND	ND	0.0309 J	0.0846	ND	ND	ND	0.0731	0.0402	ND	ND	ND
Pyrene	129-00-0	100	100	100	1,000	ND	ND	ND	0.878	0.39	ND	ND	ND	ND	0.0599	0.079	ND	ND	0.0151 J	ND	ND	ND	ND	ND
Total TICs, Semi-Volatile		---	---	---	---	0.17 J	0	5.17 J	0.68 J	0.43 J	15.93 J	0.53 J	0.4 J	0.72 J	0	0.32 J	0	1.24 J	0	13.3 J	5.66 J	0	0	0.16 J
PESTICIDES		---	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCBs)	1336-36-3	0.1	1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS																								
Aluminum	7429-90-5	---	---	---	---	9,100	9,590	19,400	8,120	5,370	7,950	9,180	11,400	10,800	9,040	9,000	7,900	11,800	8,090	9,760	7,310	11,600	8,170	10,700
Antimony	7440-36-0	---	-	-	-	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	13	16	16	16	2.7	2.7	5.6	11.4	4.4	2.5	2.5	5.4	4.5	2.6	2.5	ND	6.7	3.5	2.5	ND	5.6	2.6	6.4
Barium	7440-39-3	350	350	400	820	64.3	76.4	76.3	169	63.7	47.1	56	84.7	40.8	61.3	54.6	47.9	32.8	61.5	66.9	47.2	85.4	45.7	29.8
Beryllium	7440-41-7	7.2	14	72	47	0.55	0.78	1	0.65	0.34	0.54	0.53	0.74	0.61	0.54	0.54	0.4	0.67	0.52	0.58	0.47	0.87	0.44	0.62
Calcium	7440-70-2	---	---	---	---	1,790	2,090	3,060	26,700	18,000	1,140	1,680	1,800	3,610	3,930	1,760	1,330	2,390	4,370	1,410	1,110	2,370	8,920	2,700
Chromium	7440-47-3	---	---	---	---	18	39	32.8	27	16.7	19.4	20.6	121	21.3	20	19.3	16.5	22.5	20.1	19.9	15.1	189	17.9	20.7
Cobalt	7440-48-4	---	---	---	---	6.7	9.6	10.6	8.3	ND	ND	6	13.4	6.6	6.7	5.8	5.8	8	27.6	6.8	6.4	6.2	ND	7.2
Copper	7440-50-8	50	270	270	1,720	12.7	16.4	25.2	**105**	**60.7**	21.4	18.2	23.9	14.1	32.4	16.4	16.9	10.7	22.9	17.5	12.9	23.8	19.7	10.9
Iron	7439-89-6	---	---	---	---	14,600	17,700	26,000	16,700	9,660	12,800	13,100	20,200	18,000	14,000	14,900	12,500	23,200	11,700	13,300	10,100	19,700	11,300	20,500
Lead	7439-92-1	63	400	400	450	19.5	7.2	33.3	**574**	**420**	7.1	15.9	11.1	17.3	22	13.2	5.3	9.2	17.8	11.3	9.2	30.1	19.7	9.1
Magnesium	7439-95-4	---	---	---	---	2,720	5,430	5,460	3,930	2,020	2,570	2,300	3,910	3,950	2,720	2,700	2,600	4,960	3,060	2,820	2,090	4,490	2,450	4,410
Manganese	7439-96-5	1,600	2,000	2,000	2,000	443	468	723	546	472	332	653	648	423	516	402	392	409	323	836	274	431	229	441
Mercury	7439-97-6	0.18	0.81	0.81	0.73	ND	ND	0.13	0.14	**0.29**	ND	0.039	ND	0.081	0.073	ND	ND	ND	0.077	ND	ND	0.12	0.038	ND
Nickel (Soluble salts)	7440-02-0	30	140	310	130	15.9	22.9	29.7	19.9	12.8	15.6	18.5	**140**	20.2	18.4	16.4	18.2	19.9	16.4	20.5	15.6	**52.5**	16.6	19.8
Potassium	9/7/7440	---	---	---	---	1,550	1,840	3,560	2,770	1,260	1,710	1,280	2,060	2,060	1,870	1,650	1,130	2,700	1,680	1,500	ND	2,640	1,180	2,210
Vanadium	7440-62-2	---	---	---	---	22	36.6	38.8	20.3	16.7	20.6	20	42.1	24.1	21.9	23.3	22.3	27.2	20.4	19.1	18.5	33.7	18.6	23.5
Zinc	7440-66-6	109	2,200	10,000	2,480	25.9	30	64.5	**210**	85.2	24.5	28.2	30.7	41.5	30.2	28.9	22.6	53.1	32.1	28.7	23.1	42.2	26.2	49.9

NOTES:
NYSDEC Unrestricted basaed on the revised Brownfields clean-up objectives Subpart 375-6
1234 : Exceedence of Criteria
ND: Not Detected
--- : None Established; Criteria has not been developed for this constiuent or element and is not available
J: Estimated Value

Table 4
Groundwater
Analytical Results
508 West 24th Street
New York, New York

Sample ID:		Ground Water Quality Standards	MW-1	MW-1	MW-2	MW-2	DUP-2 (MW-2)	DUP-2 (MW-2)	MW-3	MW-3	FB-2	FB-2	TB-1
Langan Sample Number:			027	027	028	028	032	032	029	029	033	033	034
Laboratory Sample Number:	CAS No.	Part 703***	JA95043-1	JA95043-1F	JA95043-2	JA95043-2F	JA95043-4	JA95043-4F	JA95043-3	JA95043-3F	JA95043-5	JA95043-5F	JA95043-5F
Sampling Date:			12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011
Sampling Depth (ft):			9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	---	---	---
Units:		(ug/L)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
VOCs													
Cyclohexane	110-82-7	---	0.3 J	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND
Isopropyl Benzene	98-82-8	5	ND	NA	ND	NA	ND	NA	**5.8**	NA	ND	NA	ND
Methyl ethyl ketone (MEK / 2-butanone)	78-93-3	5	ND	NA	0.27 J	NA	ND	NA	ND	NA	ND	NA	ND
Methyl tert-butyl ether	1634-04-4	10	ND	NA	ND	NA	0.24 J	NA	ND	NA	ND	NA	ND
Toluene	108-88-3	5	ND	NA	ND	NA	ND	NA	0.38 J	NA	ND	NA	ND
1,2-Xylene (o-Xylene)	95-47-6	5	ND	NA	ND	NA	ND	NA	0.29 J	NA	ND	NA	ND
Total TICs, Volatile	---	---	0	NA	0	NA	0	NA	607 J	NA	ND	NA	ND
SVOCs													
Acenaphthene	83-32-9	20	ND	NA	ND	NA	ND	NA	4.6	NA	ND	NA	NA
Anthracene	120-12-7	5*	ND	NA	ND	NA	ND	NA	0.52 J	NA	ND	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	5*	1.3 J	NA	1.7 J	NA	1.1 J	NA	1.4 J	NA	1.1 J	NA	NA
Dibenzofuran	132-64-9	---	ND	NA	ND	NA	ND	NA	3.6 J	NA	ND	NA	NA
Fluorene	86-73-7	5*	ND	NA	ND	NA	ND	NA	**5**	NA	ND	NA	NA
Phenanthrene	85-01-8	5*	ND	NA	ND	NA	ND	NA	2.9	NA	ND	NA	NA
Total TICs, SVOCs	---	5*	4.8 J	NA	0	NA	0	NA	**309.2 J**	NA	**6 J**	NA	NA
Total Pesticides	---	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls (PCBs)	1336-36-3	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals													
Aluminum	7429-90-5	---	459	ND	ND	ND	ND	ND	282	ND	ND	ND	NA
Barium	7440-39-3	1,000	ND	ND	403	379	391	380	303	245	ND	ND	NA
Calcium	7440-70-2	---	55,900	55,500	136,000	130,000	135,000	132000	70,100	67,500	ND	ND	NA
Iron	7439-89-6	300	**404**	ND	**1,290**	147	**1,310**	155	**3,600**	162	ND	ND	NA
Magnesium	7439-95-4	---	17,200	17,100	45,100	42,700	44,600	43400	18,500	17,900	ND	ND	NA
Manganese	7439-96-5	300	**1,720**	**1,700**	**8,880**	**8,470**	**8,690**	**8,700**	**7,600**	**7,220**	ND	ND	NA
Potassium	7440-09-7	---	23,500	23,300	47,300	45,500	46,800	46300	18,500	17,600	ND	ND	NA
Sodium	7440-23-5	20,000	**146,000**	**146,000**	**435,000**	**421,000**	**430,000**	**418,000**	**286,000**	**278,000**	ND	ND	NA

NOTES:
* : No criteria established, value is generic criteria
***Standards exist for additional criteria not listed in this table
NYSDEC Groundwater Criteria are a combination of values from Part 703 if the NYS Code and TAGM 4046. Most values are generic screening values, however where contaminant specific criteria have been established they are used in this table
ND: Not Detected
NA: Contaminant not sampled for
J: Estimated Value

BIRDSALL SERVICES GROUP
ENGINEERS & CONSULTANTS

October 9, 2012

Steven A. Ciambruschini, P.G., L.E.P.
Langan Engineering & Environmental Services
619 River Drive Center 1
Elmwood Park, NJ 07407

RE: **508-512 West 24th Street, Manhattan, NY**
NYCOER Project No. 11EH-N349M

Dear Mr. Ciambruschini:

We have reviewed information regarding the material from the above referenced site ("site") proposed for acceptance at the Lincoln Park West Landfill Closure and Redevelopment Facility (NJDEP Preferred ID#230696, Approval #LCC100002). Impact Environmental Engineering (Impact) and Birdsall Services Group (BSG) have reviewed the following documents:

- Accutest Laboratory Report (Job #JA94991), prepared for Langan, dated January 4, 2012;
- Accutest Laboratory Report (Job #JA94786), prepared for Langan, dated January 5, 2012;
- Langan *Remedial Action Workplan Report*, dated February 15, 2012;
- Langan *Geotechnical Engineering Investigation Report*, dated February 17, 2012;
- OER Notice to Proceed Letter, dated July 5, 2012; and
- TestAmerica Laboratory Results (Job #460-45317-1), prepared for Impact, sampled October 2, 2012.

As requested, we confirm that we have reviewed the provided data and, based on the analytical results, the Lincoln Park West Landfill Closure and Redevelopment Facility is permitted as a suitable disposal facility for materials from the following areas at the 508 West 24th Street site:

- Non-Residential material will be accepted from west of a line drawn perpendicular to the northern and southern boundaries, extending through Sample #LB-3 and Sample #LB-4;

- Residential material will be accepted from only east of a line drawn perpendicular to the northern and southern boundaries, extending through Sample #LB-3 and Sample #LB-4.

The volume of material represented by the approved areas is approximately 5,500 cubic yards (bank volume).

Materials delivered to the Lincoln Park West Landfill Closure and Redevelopment Facility are subject in all respects to the terms and conditions set forth in the application documents provided for the site, applicable material separation and/or acceptance plan(s), our permits, and applicable regulatory authorizations.

We encourage you to contact us should you have any further questions regarding our acceptance of these materials at our facility.

Sincerely,

BIRDSALL SERVICES GROUP, INC.

David Bachman
Project Scientist

cc: Anthony Grano – Persistent Construction
Erich Christiansen, P.E. – BSG

M:\Cranford\Jobs\Hudson County Improvement Authority\60066100000\Lincoln Park West Fill\Contractors\Impact Environmental\Manhattan\West 24th Street_508\OER Letter.docx

3 April 2013

Douglas Birkmire
Impact Environmental, LLC
170 Keyland Court
Bohemia, New York 11716

Re: Soil Disposal Acceptance Documentation
Former Atlas Cement Quarry
508 West 24th Street
New York, New York
NYCOER BCP Site No. 12BCP044M
Langan Project No.: 100242701

Dear Mr. Birkmire:

This letter is being provided by Steven A. Ciambruschini of Langan as the Qualified Environmental Professional (QEP) for the above referenced job which is enrolled in the New York City Office of Environmental Remediation (NYCOER) Brownfield Cleanup Program (Site No. 12CBCP042M). The Fullerton Slag Bank facility, Allentown, Pennsylvania (PADEP Permit Nos. 7874SM1T3, 16848-787SM1-01) has been identified as the accepting facility for approximately 400 cubic yards of the non-hazardous impacted fill material that will be removed from the above referenced site. It is our understanding that the material from the site will be processed (blended) at the Allentown Facility before it is shipped to its final destination which is the Former Atlas Cement Quarry, Allen Township, Pennsylvania (unpermitted due to the age of the facility) as mine reclamation backfill material. The following is a list of the investigation activities that have been conducted and reviewed by your facility, a copy of the results tables from each of these investigations is provided as an attachment to this letter:

- Langan Remedial Investigation Report, dated 15 February 2012;
- Langan Remedial Action Work Plan, dated 2 March 2012.

As documented in the above referenced reports, the fill material is impacted with non-hazardous levels of metals that meets the Pennsylvania Department of Environmental Protection Clean Fill Standards. We request that you provide us a letter stating that you have reviewed the provided data and that based on the analytical results your facility is licensed and permitted as a suitable disposal facility for all of the material to be removed from the site. Additionally, in accordance with the above referenced facility permits, all pertinent documentation supporting the disposal of this material will be provided.

Please call with any questions you have regarding this letter (201.794.6900)

Sincerely,
Langan Engineering and Environmental Services, Inc.

Steven A. Ciambruschini, P.G., L.E.P.
Senior Associate / Vice President

SAC:CM:kn
Enclosure(s): Remedial Investigation Tables

cc: Joseph Flackowicz - Tamarkin
Mark Seel, Chris McMahon – Langan
Phillip Evangalista – Triton Construction

NJ Certificate of Authorization No. 24GA27996400
\\langan.com\data\EP\data7\100242701\Engineering Data\Environmental\Correspondence\Disposal Facility Letter\TRC Allentown-Atlas - Disposal Facility Acceptance Letter.docx

Table 3
Soil Analytical Results
508 West 24th Street
New York, New York

Sample Grid Identifiers:		SUBPART 375-6 (Revised Brownfields) #				LB-1	LB-1	LB-1	LB-2	LB-2	LB-2	LB-3	LB-3	LB-3	LB-4	DUP-1 (LB-4)	LB-4	LB-4	LB-5	LB-5	LB-5	LB-6	LB-6	LB-6
Langan Sample Number:			RESTRICTED USE SOIL CLEANUP OBJECTIVES			017	020	021	09	025	010	012	014	015	022	026	023	024	001	002	003	005	007	015
Laboratory Sample Number:		UNRESTRICTED USE OBJECTIVES	Protection of Public Health		Protection of Groundwater	JA94991-1	JA94991-2	JA94991-3	JA94786-7	JA94991-7	JA94786-8	JA94786-9	JA94786-10	JA94786-11	JA94991-4	JA94991-8	JA94991-5	JA94991-6	JA94786-1	JA94786-2	JA94786-3	JA94786-4	JA94786-5	JA94786-6
Sampling Date:			Residential	Restricted - Residential		12/15/2011	12/15/2011	12/15/2011	12/14/2011	12/15/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/15/2011	12/15/2011	12/15/2011	12/15/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011
Sampling Depth (ft):						1-3	9-11	14-16	1-3	9-11	14-16	1-3	9-11	14-16	1-3	1-3	9-11	16-18	1-3	9-11	13-15	1-3	9-11	14-16
Units:	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs)																								
Acetone (2-Propanone)	67-64-1	0.05	100	100	0.05	ND	ND	0.0262	ND	ND	0.0219	ND	ND	ND	ND	ND	ND	0.0246	ND	ND	0.0165	ND	ND	0.0316
Benzene	71-43-2	0.06	2.9	4.8	0.06	ND	ND	ND	ND	0.00051 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (Methyl ethyl ketone)(MEK)	78-93-3	0.12	100	100	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J
Carbon disulfide	75-15-0	---	---	---	---	ND	ND	ND	ND	ND	0.00069 J	ND	ND	0.00089 J	ND	ND	ND	0.0026 J	ND	ND	0.0003 J	ND	ND	0.0019 J
Chloroform	67-66-3	0.37	10	49	0.037	ND	ND	ND	ND	ND	ND	ND	0.0036 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	100-41-4	1	30	41	1	ND	ND	ND	ND	ND	ND	ND	ND	0.00025 J	ND	ND	ND	0.00033 J	ND	ND	ND	ND	ND	ND
Cumene (Isopropyl Benzene)	98-82-8	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.369	0.00029 J	ND	ND	ND
Methyl Cyclohexane	108-87-2	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0272 J	ND	ND	ND	ND
Methylene chloride(Dichloromethane)	75-09-2	0.05	51	100	0.05	0.0028 J	ND	ND	ND	0.0028 J	0.0039 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023 J	ND	ND	ND
m,p-Xylene		---	---	---	---	ND	ND	0.00052 J	ND	ND	0.00048 J	ND	ND	0.0007 J	ND	ND	0.00039 J	0.00094 J	ND	ND	0.00059 J	ND	ND	ND
Total TICs, Volatile						0	0	0	0	0	0.0021 J	0	0.0099 J	0	0	0	0	0	0	174.7 J	0.0248 J	0	0	0
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)																								
Acenaphthene	83-32-9	20	100	100	98	ND	ND	ND	0.0429	0.0224 J	0.0585	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	100	100	100	107	ND	ND	ND	0.0271 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	100	100	100	1,000	ND	ND	ND	0.163	0.0581	ND	ND	ND	ND	ND	0.0171 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	1	1	1	1	ND	ND	ND	0.441	0.187	ND	ND	ND	ND	0.0229 J	0.0342	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	1	1	1	22	ND	ND	ND	0.342	0.192	ND	ND	ND	ND	0.0183 J	0.0289 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	1	1	1	1.7	ND	ND	ND	0.382	0.176	ND	ND	ND	ND	0.0154 J	0.0204 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	100	100	100	1,000	ND	ND	ND	0.214	0.183	ND	ND	ND	ND	ND	0.0194 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.8	1	3.9	1.7	ND	ND	ND	0.23	0.145	ND	ND	ND	ND	0.0129 J	0.0256 J	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	85-68-7	---	---	---	---	ND	ND	ND	ND	0.171	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	---	---	---	---	ND	ND	ND	0.0491 J	0.0297 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	1	1	3.9	1	ND	ND	ND	0.444	0.191	ND	ND	ND	ND	0.0186 J	0.0301 J	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzia,h)anthracene	53-70-3	0.33	0.33	0.33	1,000	ND	ND	ND	0.0829	0.0436	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	7	14	59	210	ND	ND	ND	0.0285 J	0.0137 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	117-81-7	---	---	---	---	ND	ND	0.0663 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	117-81-7	---	---	---	---	ND	0.0561 J	0.0584 J	0.11	0.0634 J	0.216	ND	ND	0.0632 J	0.095	ND	ND	0.0548 J	0.064 J	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	100	100	100	1,000	ND	ND	ND	0.893	0.289	ND	ND	ND	ND	0.0463	0.0631	ND	ND	0.0169 J	ND	ND	ND	ND	ND
Fluorene	86-73-7	30	100	100	386	ND	ND	ND	0.0447	0.0173 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0419	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	8.2	ND	ND	ND	0.197	0.127	ND	ND	ND	ND	ND	0.0187 J	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	12	100	100	12	ND	ND	ND	0.0165 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	100	100	100	1,000	ND	ND	ND	0.689	0.285	0.0455	ND	ND	ND	0.0309 J	0.0846	ND	ND	ND	0.0731	0.0402	ND	ND	ND
Pyrene	129-00-0	100	100	100	1,000	ND	ND	ND	0.878	0.39	ND	ND	ND	ND	0.0599	0.079	ND	ND	0.0151 J	ND	ND	ND	ND	ND
Total TICs, Semi-Volatile		---	---	---	---	0.17 J	0	5.17 J	0.68 J	0.43 J	15.93 J	0.53 J	0.4 J	0.72 J	0	0.32 J	0	1.24 J	0	13.3 J	5.66 J	0	0	0.16 J
PESTICIDES		---	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCBs)	1336-36-3	0.1	1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS																								
Aluminum	7429-90-5	---	---	---	---	9,100	9,590	19,400	8,120	5,370	7,950	9,180	11,400	10,800	9,040	9,000	7,900	11,800	8,090	9,760	7,310	11,600	8,170	10,700
Antimony	7440-36-0	---	-	-	-	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	13	16	16	16	2.7	2.7	5.6	11.4	4.4	2.5	2.5	5.4	4.5	2.6	2.5	ND	6.7	3.5	2.5	ND	5.6	2.6	6.4
Barium	7440-39-3	350	350	400	820	64.3	76.4	76.3	169	63.7	47.1	56	84.7	40.8	61.3	54.6	47.9	32.8	61.5	66.9	47.2	85.4	45.7	29.8
Beryllium	7440-41-7	7.2	14	72	47	0.55	0.78	1	0.65	0.34	0.54	0.53	0.74	0.61	0.54	0.54	0.4	0.67	0.52	0.58	0.47	0.87	0.44	0.62
Calcium	7440-70-2	---	---	---	---	1,790	2,090	3,060	26,700	18,000	1,140	1,680	1,800	3,610	3,930	1,760	1,330	2,390	4,370	1,410	1,110	2,370	8,920	2,700
Chromium	7440-47-3	---	---	---	---	18	39	32.8	27	16.7	19.4	20.6	121	21.3	20	19.3	16.5	22.5	20.1	19.9	15.1	189	17.9	20.7
Cobalt	7440-48-4	---	---	---	---	6.7	9.6	10.6	8.3	ND	ND	6	13.4	6.6	6.7	5.8	5.8	8	27.6	6.8	6.4	6.2	ND	7.2
Copper	7440-50-8	50	270	270	1,720	12.7	16.4	25.2	**105**	**60.7**	21.4	18.2	23.9	14.1	32.4	16.4	16.9	10.7	22.9	17.5	12.9	23.8	19.7	10.9
Iron	7439-89-6	---	---	---	---	14,600	17,700	26,000	16,700	9,660	12,800	13,100	20,200	18,000	14,000	14,900	12,500	23,200	11,700	13,300	10,100	19,700	11,300	20,500
Lead	7439-92-1	63	400	400	450	19.5	7.2	33.3	**574**	**420**	7.1	15.9	11.1	17.3	22	13.2	5.3	9.2	17.8	11.3	9.2	30.1	19.7	9.1
Magnesium	7439-95-4	---	---	---	---	2,720	5,430	5,460	3,930	2,020	2,570	2,300	3,910	3,950	2,720	2,700	2,600	4,960	3,060	2,820	2,090	4,490	2,450	4,410
Manganese	7439-96-5	1,600	2,000	2,000	2,000	443	468	723	546	472	332	653	648	423	516	402	392	409	323	836	274	431	229	441
Mercury	7439-97-6	0.18	0.81	0.81	0.73	ND	ND	0.13	0.14	**0.29**	ND	0.039	ND	0.081	0.073	ND	ND	ND	0.077	ND	ND	0.12	0.038	ND
Nickel (Soluble salts)	7440-02-0	30	140	310	130	15.9	22.9	29.7	19.9	12.8	15.6	18.5	**140**	20.2	18.4	16.4	18.2	19.9	16.4	20.5	15.6	**52.5**	16.6	19.8
Potassium	9/7/7440	---	---	---	---	1,550	1,840	3,560	2,770	1,260	1,710	1,280	2,060	2,060	1,870	1,650	1,130	2,700	1,680	1,500	ND	2,640	1,180	2,210
Vanadium	7440-62-2	---	---	---	---	22	36.6	38.8	20.3	16.7	20.6	20	42.1	24.1	21.9	23.3	22.3	27.2	20.4	19.1	18.5	33.7	18.6	23.5
Zinc	7440-66-6	109	2,200	10,000	2,480	25.9	30	64.5	**210**	85.2	24.5	28.2	30.7	41.5	30.2	28.9	22.6	53.1	32.1	28.7	23.1	42.2	26.2	49.9

NOTES:
NYSDEC Unrestricted basaed on the revised Brownfields clean-up objectives Subpart 375-6
1234 : Exceedence of Criteria
ND: Not Detected
--- : None Established; Criteria has not been developed for this constiuent or element and is not available
J: Estimated Value

Table 4
Groundwater
Analytical Results
508 West 24th Street
New York, New York

Sample ID:		Ground Water Quality Standards	MW-1	MW-1	MW-2	MW-2	DUP-2 (MW-2)	DUP-2 (MW-2)	MW-3	MW-3	FB-2	FB-2	TB-1
Langan Sample Number:			027	027	028	028	032	032	029	029	033	033	034
Laboratory Sample Number:	CAS No.	Part 703***	JA95043-1	JA95043-1F	JA95043-2	JA95043-2F	JA95043-4	JA95043-4F	JA95043-3	JA95043-3F	JA95043-5	JA95043-5F	JA95043-5F
Sampling Date:			12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011
Sampling Depth (ft):			9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	---	---	---
Units:		(ug/L)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
VOCs													
Cyclohexane	110-82-7	---	0.3 J	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND
Isopropyl Benzene	98-82-8	5	ND	NA	ND	NA	ND	NA	**5.8**	NA	ND	NA	ND
Methyl ethyl ketone (MEK / 2-butanone)	78-93-3	5	ND	NA	0.27 J	NA	ND	NA	ND	NA	ND	NA	ND
Methyl tert-butyl ether	1634-04-4	10	ND	NA	ND	NA	0.24 J	NA	ND	NA	ND	NA	ND
Toluene	108-88-3	5	ND	NA	ND	NA	ND	NA	0.38 J	NA	ND	NA	ND
1,2-Xylene (o-Xylene)	95-47-6	5	ND	NA	ND	NA	ND	NA	0.29 J	NA	ND	NA	ND
Total TICs, Volatile	---	---	0	NA	0	NA	0	NA	607 J	NA	ND	NA	ND
SVOCs													
Acenaphthene	83-32-9	20	ND	NA	ND	NA	ND	NA	4.6	NA	ND	NA	NA
Anthracene	120-12-7	5*	ND	NA	ND	NA	ND	NA	0.52 J	NA	ND	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	5*	1.3 J	NA	1.7 J	NA	1.1 J	NA	1.4 J	NA	1.1 J	NA	NA
Dibenzofuran	132-64-9	---	ND	NA	ND	NA	ND	NA	3.6 J	NA	ND	NA	NA
Fluorene	86-73-7	5*	ND	NA	ND	NA	ND	NA	**5**	NA	ND	NA	NA
Phenanthrene	85-01-8	5*	ND	NA	ND	NA	ND	NA	2.9	NA	ND	NA	NA
Total TICs, SVOCs	---	5*	4.8 J	NA	0	NA	0	NA	**309.2 J**	NA	**6 J**	NA	NA
Total Pesticides	---	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls (PCBs)	1336-36-3	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals													
Aluminum	7429-90-5	---	459	ND	ND	ND	ND	ND	282	ND	ND	ND	NA
Barium	7440-39-3	1,000	ND	ND	403	379	391	380	303	245	ND	ND	NA
Calcium	7440-70-2	---	55,900	55,500	136,000	130,000	135,000	132000	70,100	67,500	ND	ND	NA
Iron	7439-89-6	300	**404**	ND	**1,290**	147	**1,310**	155	**3,600**	162	ND	ND	NA
Magnesium	7439-95-4	---	17,200	17,100	45,100	42,700	44,600	43400	18,500	17,900	ND	ND	NA
Manganese	7439-96-5	300	**1,720**	**1,700**	**8,880**	**8,470**	**8,690**	**8,700**	**7,600**	**7,220**	ND	ND	NA
Potassium	7440-09-7	---	23,500	23,300	47,300	45,500	46,800	46300	18,500	17,600	ND	ND	NA
Sodium	7440-23-5	20,000	**146,000**	**146,000**	**435,000**	**421,000**	**430,000**	**418,000**	**286,000**	**278,000**	ND	ND	NA

NOTES:
* : No criteria established, value is generic criteria
***Standards exist for additional criteria not listed in this table
NYSDEC Groundwater Criteria are a combination of values from Part 703 if the NYS Code and TAGM 4046. Most values are generic screening values, however where contaminant specific criteria have been established they are used in this table
ND: Not Detected
NA: Contaminant not sampled for
J: Estimated Value

IMPACT ENVIRONMENTAL 170 Keyland Court| Bohemia| NY | 11716 | 631.269.8800
welcome to solid ground… *www.impactenvironmental.com*

April 3, 2013

Mr. Steven A. Ciambruschini
Langan Engineering and Environmental Services, Inc.
River Drive Center 1
Elmwood Park, New Jersey

RE: Project #4512: 508 West 24th Street, New York, NY

Mr. Ciambruschini,

Impact Environmental Consulting, Inc. is the authorized environmental compliance engineer for the disposal facility at Total Recycling Corporation (TRC). As compliance engineer, Impact Environmental reviews analytical data and site background information for site-specific sources to evaluate acceptance of materials into the facility in compliance with the facility permit.

Impact Environmental has reviewed information regarding material from the above referenced site ("site"). The review included an evaluation of the following documents:

- Remedial Investigation Report dated February 2012 (Langan); and
- Remedial Action Work Plan dated February 2012 (Langan).

The analytical data subject to the reports were reviewed and compared with the facility permit requirements and soil represented by the following sample IDs are found acceptable for disposal at our permitted facility:

Boring ID	LB-1	LB-1	LB-1	LB-2	LB-2	LB-2
Depth	1-3'	9-11'	14-16'	1-3'	9-11'	14-16'
Boring ID	LB-3	LB-3	LB-3	LB-4	LB-4	LB-4
Depth	1-3'	9-11'	14-16'	1-3'	9-11'	16-18'

The volume subject to this Approval is approximately 400 cubic yards. All soil will be accepted and managed in accordance with the facility permit (PADEP Permit No. 7874SM1T3, 16848-787SM1-01). The material will be disposed at its final destination (i.e., Former Atlas Cement Quarry, Northhampton, Pennsylvania) as mine reclamation backfill material. As a reminder, we cannot accept historic fill (ash, cinders, and wallboard), municipal solid waste (MSW) or industrial hazardous waste. Please feel free to contact me with any questions.

Sincerely,
IMPACT ENVIRONMENTAL

Richard Parrish
President

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 112,339

Ticket Number: 48950 48950

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
100080 lb	
27380 lb	36.350 tn
72700 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: GIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	9:40 am	9:42 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

any 69

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AP885D

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Wm Mel

Authorized By (title) As Agent For Highline W24th LLC

Authorized By (sig) Wm Mel

Time: 8:20 Date: 4/1

Transporter:

Jencar Trucking
Randolph NJ

2

Driven By Andres Arenza

Truck/Trailer Plate #69 AP885D

Driver Signature

Time: Date:

Manifest Number 112339

Material/Note(s):

Site Location: _____

Residential [Y]

Non-Residential [ ]

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72700 GROSS WEIGHT 100080

NET TONS 36.35 TARE WEIGHT 27380

TICKET NUMBER 48950

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Jack 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 943 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 112,343

Ticket Number: 48951 48951

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99360 lb	
27380 lb	35.990 tn
71980 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	9:45 am	9:45 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24th STREET LLC
56 WEST 22nd STREET
NEW YORK, NY 10010

SITE: 508 WEST 24th STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Wm Mc I.

Authorized By (title) AS AGENT FOR 508 W 24ST LLC HIGHLINE

Authorized By (sig)

TIME: 8/24 AM DATE: 4/1

Transporter:

Sucar

2

Driven By Andrew Hernandez

Truck/Trailer Plate AW 509 W #71

Driver Signature

TIME:_____ DATE:_____

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 112343

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71980 GROSS WEIGHT 99360

NET TONS 35.99 TARE WEIGHT 27380

TICKET NUMBER 48951

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 9:46 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 112,340

Ticket Number: 48952 48952

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
102700 lb	
29320 lb	36.690 tn
73380 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	9:48 am	9:49 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Jenca 68 Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 500 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 500 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Wm Meli

Authorized By (title) AS AGENT FOR HIGHLINE W 24TH LLC

Authorized By (sig) [signature]

TIME: 8:20 DATE: 4/1

Transporter:

2

Driven By Hernando Ruiz

Truck/Trailer Plate AP 9124

Driver Signature [signature]

TIME:_____ DATE:_____

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 112340

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 73380 GROSS WEIGHT 102700

NET TONS 36.69 TARE WEIGHT 29320

TICKET NUMBER 48952

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible] 7324

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 9:49 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,427

Ticket Number: 48980 48980

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95200 lb	
27380 lb	33.910 tn
67820 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	11:50 am	11:51 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

any 69 Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AP885D

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]
[illegible]
[illegible]

[illegible] 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512
4512

1

Authorized By (print): Jessica Frisaia

Authorized By (title): Agent of Highline 508 Waylin Street LLC

Authorized By (sig): [signature]

Time: Date:

Transporter:

Jencar trucking
Randolph, NJ

2

Driven By: Andres Arenzu

Truck/Trailer Plate: # 69. AP885D

Driver Signature: [signature]

Time:

Manifest Number: 78427

IMPACT ENVIRONMENTAL

Material/Note(s):

Res

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67820 GROSS WEIGHT 95200

NET TONS 33.91 TARE WEIGHT 27380

TICKET NUMBER 48980

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): Jack 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dunnsville Avenue
Jamaica Bay, NY

3

Date/Time: 4-1-13 1152

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 112,341

Ticket Number: 48981 48981

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
94320 lb	
27380 lb	33.470 tn
66940 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: GIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	11:53 am	11:54 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

Agent of Highline 508 W24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1040 DATE: ~~1040~~ JF 4/1/13

Transporter:

2

Driven By Abdulbaken H.

Truck/Trailer Plate AN50GW

Driver Signature

TIME: _____ DATE: _____

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 112341

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66940 GROSS WEIGHT 94320

NET TONS 33.47 TARE WEIGHT 27380

TICKET NUMBER 48981

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73244

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 1155 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,426

Ticket Number: 48983 48983

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97600 lb	
29320 lb	34.140 tn
68280 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/1/13 Tare Time 12:04 pm Gross Time 12:05 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Jenca 68 Transporter Name, Address and Permit #:

Driver Name and Signature (Conditional):
AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

New York NY 10010

Site 508 West 24th Street

New York NY 10010

Block 695 Lot 44

Job # 4512

4512

1

Authorized By (print) Wm Mc.

Authorized By (title) AS AGENT FOR HIGHLINE W. 24th ST.

Authorized By (sig)

Time 1100 Date 4/1/13

Transporter:

JENCAR

2

Driven By Fernando Rossi

Truck/Trailer Plate AP8127

Driver Signature

Material/Note(s):

RCS

Manifest Number 78426

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 48280 GROSS WEIGHT 97600

NET TONS 34.14 TARE WEIGHT 29320

TICKET NUMBER 48983

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Park West Landfill Closure Site

3

Date/Time 4-1-13 1205pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~78,424~~

Ticket Number: 49002 ~~49002~~

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
93380 lb	
27380 lb	33.000 tn
66000 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

	Tare Time	Gross Time
Date and Time In and Out: 4/1/13	1:25 pm	1:25 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA
Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
amv 69

Driver Name and Signature (conditional):
AP885D

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generation Holding 508 West 24th Street LLC
[illegible] West 20th Street
New York, NY 10010
[illegible]

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44
Job # 4512

4512

1

Authorized By (print) Wm Me 1.

Authorized By (title) AS AGENT FOR HIGHLINE W. 24th ST LLC

Authorized By (sig)

1230 4/1/13

Transporter:

Jencar trucking
Randolph, NJ

2

Driven By Andres Arizu

Truck/Trailer Plate A69. AP885D

Driver Signature

Material/Note(s):

[illegible]

RRS. Y.

Manifest Number 78424

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66000 GROSS WEIGHT 93380

NET TONS 33.00 TARE WEIGHT 27380

TICKET NUMBER 49002

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible] 73241

Receiving Facility:

Linden Roll-Off Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 1:26 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,423

Ticket Number: 49012

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

NOTES:
THANKS

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97520 lb	
27380 lb	35.070 tn
70140 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/1/13	1:58 pm	1:58 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JENCA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Wm. Mc I.

Authorized By (title) AS AGENT FOR HIGHLINE 508 W 24th LLC

Authorized By (sig)

TIME: DATE:

Transporter:

2

Driven By Alexander A

Truck/Trailer Plate ANS 09 W #71

Driver Signature

TIME: DATE:

Material/Note(s):

SITE LOCATION:

[ ]

[X]

Manifest Number 78423

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70140 GROSS WEIGHT 97520

NET TONS 3507 TARE WEIGHT 27380

TICKET NUMBER 49012

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73244

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-1-13 1:59 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~78,425~~ ~~49019~~

Ticket Number: 49019

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

THANKS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97380 lb	
29320 lb	34.030 tn
68060 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out	Tare Time	Gross Time
4/1/13	2:16 pm	2:16 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
JENCA

Secondary Transporter Name, Address and Permit #:
Jencar 68

Driver Name and Signature (conditional):
AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]
[illegible]
[illegible]

[illegible] 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Wan Mo Li

Authorized By (title) AS AGENT FOR 508 HIGHLINE W 24TH LLC

Authorized By (sig) [signature]

Time 1250 Date 4/1/13

Transporter:

2

Driven By Hernando Russi

Truck/Trailer Plate AP 812A

Driver Signature [signature]

Time [illegible]

Material/Note(s):

[illegible]

Manifest Number 78425

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 6060 GROSS WEIGHT 97380

NET TONS 34.03 TARE WEIGHT 29320

TICKET NUMBER 49019

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Jun 73204

Receiving Facility:

[illegible] Landfill Closure Site
[illegible]
[illegible]

3

Date/Time 4-1-13 2:17 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,065 9946298

Ticket Number: 46298

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
105180 lb	
30300 lb	37.440 tn
74880 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/8/13	10:10 am	10:10 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF
Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL312C

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christie B Madsen

Authorized By (title) As agent for High line/W24th St LLC

Authorized By (sig) Christie B Madsen

TIME: 0911 DATE: 2/8/2013

Transporter:

2

Driven By [illegible]

Truck/Trailer Plate AL 312C

Driver Signature [illegible]

TIME: _____ DATE: 2/8/2013

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97065

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 74880 GROSS WEIGHT 105180

NET TONS 37.44 TARE WEIGHT 30300

TICKET NUMBER 46798

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/8/13 10:12am [illegible]

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [illegible]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,902 9946256

Ticket Number: 46256

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
102020 lb	
30300 lb	35.860 tn
71720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/8/13	8:10 am	8:10 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL312C

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline/W 24th St LLC

Authorized By (sig) Christ B Madsen

0715 2/8/2013

Transporter:

2

Driven By [illegible]

Truck/Trailer Plate 2/8/2013

Driver Signature [illegible]

Material/Note(s):

Manifest Number 77902

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71720 GROSS WEIGHT 102020

NET TONS 35.86 TARE WEIGHT 30300

TICKET NUMBER 116254

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:

3

Date/Time 2/8/2013 8:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [illegible]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,403

Ticket Number: 49471 49471

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

THANKS RECLASSED TO NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
93960 lb	
29320 lb	32.320 tn
64640 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 12:41 pm Gross Time 12:40 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Jencar 68

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) WILLIAM MELI AS AGENT FOR 508 W 24TH ST LLC HIGHLINE

Authorized By (title) Proj Mgr.

Authorized By (sig) [signature]

Transporter:

68
JENCAR
Recycle & to Non Res

2

Driven By [signature]

Truck/Trailer Plate AP812A

Driver Signature [signature]

Material/Note(s):

[illegible]

Manifest Number 78403

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 64640 GROSS WEIGHT 93960

NET TONS 32.32 TARE WEIGHT 29320

TICKET NUMBER ~~49448~~ 49471

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible] 73241

Receiving Facility:

Linden Park West Landfill Closure Site
[illegible]

3

Date/Time 4-5-13 1057AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,400

Ticket Number: 49470 49470

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

~~THANKS RECLASSED TO NON RES~~

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
94440 lb
29320 lb
65120 lb

NET (Tons):
32.560 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: ~~CIS~~

Date and Time In and Out: 4/5/13 Tare Time ~~12:39 pm~~ Gross Time ~~12:40 pm~~

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Jenca 69 Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator: 508 West 24th Street

508 West 24th Street

Block 695 Lot 44

Job #4512

4512

1

Authorized By (print) LINDSAY DECKARD ~~OF~~ AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig)

Time 0745 Date 5APR13

Transporter:

#68

JENCAR

RECLASS TO NON RES

2

Driven By Fernando Russi

Truck/Trailer Plate AP 8128

Driver Signature

Time 0745 Date 5 APR13

Material/Note(s):

X

X

Manifest Number 78400

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65120 GROSS WEIGHT 94440

NET TONS 32.56 TARE WEIGHT 29320

TICKET NUMBER ~~46433~~ 49470

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site

3

Date/Time 4-5-13 903 am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,406

Ticket Number: 49469 49469

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

THANKS RECLASSED TO NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
101400 lb
29320 lb
72080 lb

NET (Tons):
36.040 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 4/5/13 12:35 pm Gross Time 12:36 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Jenca 68

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional)

AP812A

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

New York NY 10010

Site: 508 West 24th Street
New York NY 10010
Block 696 Lot 44

Job # 4512

4512

1

Authorized By (print) LINDSAY DEVARED HS AGENT FOR BOB W 12TH ST ~~HIGHLINE LLC~~

Authorized By (title) LANGAN STAFF

Authorized By (sig)

Time 1140 Date 5APR13

Transporter:

#68
JENNAR
Reclassed to
NON RES

2

Driven By

Truck/Trailer Plate AP812A

Driver Signature

Time 1140 Date 5APR13

Material/Note(s):

Manifest Number 78406

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72080 GROSS WEIGHT 101400

NET TONS 36.04 TARE WEIGHT 29320

TICKET NUMBER 49469

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Ley 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Jersey City NJ

3

Date/Time 4-5-13 1236pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,402

Ticket Number: 49468 49468

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

THANKS RECLASSED TO NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97080 lb	
27380 lb	34.850 tn
69700 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 12:29 pm Gross Time 12:30 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator: WEST 24TH ST.

[illegible] 508 West 24th Street LLC

[illegible]

New York NY 10010

Site 508 West 24th Street

New York NY 10010

Floor 6/6 Lot 44

Job # 4512

4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

Transporter:

#71

JENCAR

Reclassed to NONRES

2

Driven By Abdoulaye H.

Truck/Trailer Plate AN509W #71

Driver Signature

Material/Note(s):

[illegible]

X

[illegible]

Manifest Number 78402

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69700 GROSS WEIGHT 97080

NET TONS 34.85 TARE WEIGHT 27380

TICKET NUMBER ~~49442~~ 49468

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Jim 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site

Duncan Avenue

Jersey City, NJ

3

Date/Time 4-5-13 10:41Am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,399

Ticket Number: 49467 49467

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
~~THANKS RECLASSED TO NON RES~~

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
93260 lb
27380 lb
65880 lb

NET (Tons):
32.940 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 12:27 pm Gross Time 12:28 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator: WEST 24th Street

New York NY 10010

Block 695 Lot 44

Job # 4512

4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANDFILL STAFF

Authorized By (sig)

Time 0730 Date 5 APR 13

Transporter:

71

JCNCAR

RECLASSED to NON RES

2

Driven By Alberto Hernandez

Truck/Trailer Plate AN509W #71

Driver Signature

0730 5 APR 13

Material/Note(s):

RES [X]

non Res [ ]

Manifest Number 78399

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65880 GROSS WEIGHT 93260

NET TONS 32.94 TARE WEIGHT 27380

TICKET NUMBER ~~49429~~ 49467

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Linden Park West Landfill Closure Site

Duncan Avenue

Jersey City, NJ

3

Date/Time 4-5-13 848 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,405

Ticket Number: 49466 49466

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

~~THANKS RECLASSED TO NON RES~~

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97040 lb
27380 lb
69660 lb

NET (Tons):
34.830 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: ~~CIS~~

Date and Time In and Out: ~~4/5/13~~ Tare Time ~~12:18 pm~~ Gross Time ~~12:19 pm~~

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

LINDSAY DECLARED AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (print)

LANGAN STAFF

Authorized By (title)

Authorized By (sig)

Time: 1125 Date: 5 APR 13

Transporter:

HENCAR

2

Driven By Alberto Hernandez

Truck/Trailer Plate AN5099W #71

Driver Signature

Time: Date:

Material/Note(s):

[illegible]

X

Manifest Number 78405

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69660 GROSS WEIGHT 97040

NET TONS 34.83 TARE WEIGHT 27380

TICKET NUMBER 49466

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Hempstead Park West Landfill Closure Site
[illegible]

3

Date/Time 4-5-13 12:22pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 112,342

Ticket Number: 49463 49463

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

THANKS RECLASSED TO NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
79360 lb	
26820 lb	26.270 tn
52540 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/5/13	12:10 pm	12:10 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ARCTI

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN749Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR 508 HIGHLINE LLC W 24TH

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0715 DATE: 5APR13

Transporter:

608
ARTIC
Reclassed

2

Driven By

Truck/Trailer Plate AN749Y

Driver Signature

TIME: 5APR13 DATE: 0715

Manifest Number 112342

IMPACT ENVIRONMENTAL

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 52540 GROSS WEIGHT 79360

NET TONS 26.27 TARE WEIGHT 26820

TICKET NUMBER 49417
49463

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-5-13 8:08 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,401

Ticket Number: 49462 49462

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

THANKS RECLASSED TO NON-RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
82480 lb	
26820 lb	27.830 tn
55660 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 12:06 pm Gross Time 12:07 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ARCTI

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): JULIAN

AN749Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

LINDSAY DECKARD OF LANGAN AS AGENT FOR 500 W 24TH ST HOLDINGS LLC

Authorized By (print)

Authorized By (title)

Authorized By (sig)

0915 5 APR 13

Transporter:

#68
ARTIC

RECLASSED to NONRES

2

Driven By JULIAN

Truck/Trailer Plate AN 7499

Driver Signature

Material/Note(s):

[illegible]

[illegible] X

[illegible] 10

Manifest Number 78401

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 55660 GROSS WEIGHT 82480

NET TONS 27.83 TARE WEIGHT 26820

TICKET NUMBER ~~49440~~ 49462

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Jim 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
[illegible]
[illegible] NJ

3

Date/Time 4-5-13 1004 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,404

Ticket Number: 49461 49461

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NOTES: THANKS RECLASSIFIED NON RES BY BIRDSALL

WEIGHT

GROSS/TARE/NET (lbs)
82440 lb
26820 lb
55620 lb

NET (Tons):
27.810 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 11:57 am Gross Time 12:02 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ARC-11

Primary Transporter Name, Address and Permit #:

Arctic 68 Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN749Y Juan

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 509 West 24th Street LLC
[illegible]
New York, NY 10010

Site: 509 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job #4549

1

Authorized By (print) WILLIAM HELL AS AGENT FOR 509 W 24TH ST HIGHLINE LLC

Authorized By (title) Proj Mgr.

Authorized By (sig)

1100 STARTED

Transporter:

#48
ARTIC

Reclassed

2

Driven By JULIAN

Truck/Trailer Plate AN7494

Driver Signature

1100 STARTED

Material/Note(s):

[illegible] X

X

Manifest Number 78404

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 55620 GROSS WEIGHT 82440

NET TONS 27.81 TARE WEIGHT 26820

TICKET NUMBER _____

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible] 73244

Receiving Facility:

[illegible] Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-5-13 1203pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,407

Ticket Number: 49482 49482

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
THANKS RECLASS TO NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
89540 lb	
26820 lb	31.360 tn
62720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
4/5/13	1:46 pm	1:48 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ARCTI

Primary Transporter Name, Address and Permit #:

Arctic 68

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN749Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

4512

1

Authorized By (print) LINDSAY DEGRAAFF AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

Time 1245 Date 5APR13

Transporter:

#68
ARTIC Recloss
TONNES

2

Driven By JULIAN

Truck/Trailer Plate AN749Y

Driver Signature

Time 1245 Date 5APR13

Material/Note(s):

Manifest Number 78407

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62720 GROSS WEIGHT 89540

NET TONS 31.36 TARE WEIGHT 26820

TICKET NUMBER 49482

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dunmore, Pennsylvania
Jermyn City, NJ

3

Date/Time 4-5-13 1448

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,408

Ticket Number: 49486 49486

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

~~THANKS RECLASS TO NON RES~~

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
104040 lb
27380 lb
76660 lb

NET (Tons):
38.330 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 4/5/13 Tare Time 2:01 pm Gross Time 2:02 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JENCA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN509W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 685 Lot 44

Job # 4512

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

Time 1308 Date 5 APR 13

Transporter:

2

Driven By Abel Igarth

Truck/Trailer Plate AN509W

Driver Signature

Material/Note(s):

Manifest Number 78408

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 76660 GROSS WEIGHT 104040

NET TONS 38.33 TARE WEIGHT 27380

TICKET NUMBER 49486

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Jan 73241

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4-5-13 203pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,981

Ticket Number: 31484

SCALE TICKET

Part 1 GENERATOR

Generator #, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source Site Name (Shipped Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
94660 lb
27300 lb
67360 lb

NET (Tons):
33.680 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair
Tare Time: 8:36 am
Gross Time: 8:37 am
Date: 10/12/12

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

DATE and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title)

Authorized By (sig) Lindsay Deckard

0740 12OCT12

Transporter:

CP Trucking LLC

2

Driven By Eric Vera

Truck/Trailer Plate AM17214

Driver Signature EV

Material/Note(s):

EA-6

Manifest Number 77981

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67360 GROSS WEIGHT 94660

NET TONS 33.68 TARE WEIGHT 27300

TICKET NUMBER 31484.

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) V

Receiving Facility:

3

Date/Time 10/12/12 8:37

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title)

Authorized By (sig) Lindsay Deckard

TIME: 08 00 DATE: 12 OCT 12

Transporter:

CP Trucking
CP 17

2

Driven By T Fernando C

Truck/Trailer Plate AL975N.

Driver Signature

TIME: 10/12/12 DATE: 10/12/12

Material/Note(s):

SITE LOCATION: EA - 6

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 77852

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 64160 GROSS WEIGHT 92960

NET TONS 32.08 TARE WEIGHT 28800

TICKET NUMBER 31490

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 10/12/12 8:58

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,852

Ticket Number: 9931490 31490

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
92960 lb
28800 lb
64160 lb

NET (Tons):
32.080 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
10/12/12	8:58 am	8:58 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): AL975N

Truck Plate Number: AL975N

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title)

Authorized By (sig) 0811 120012

Transporter:

CP Trucking

2

Driven By WASHINGTON

Truck/Trailer Plate #47 AN170L

Driver Signature

Material/Note(s): EA-6

Manifest Number 77920

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 78780 GROSS WEIGHT 107160

NET TONS 39.39 TARE WEIGHT 28380

TICKET NUMBER 31499

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) V.B.

Receiving Facility:

3

Date/Time 10/12/12 9:23

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,920

Ticket Number: 9931499 31499

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512 Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street 508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

RES SOIL

Classification of Material:
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs): 107160 / 28380 lb / 78780 lb

NET (Tons): 39.390 tn

Part 3 WEIGHT CETIFICATION Ryan Adair

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

CP

Name of Scale Operator:	Tare Time	Gross Time
10/12/12	9:22 am	9:22 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
CP 47

Secondary Transporter Name, Address and Permit #:

AN170L

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/W 24TH LLC

Authorized By (sig) Lindsay Deckard

0937 10-12-12

Transporter:

CP Trucking LLC

2

Driven By Eric Vera

Truck/Trailer Plate AM172H

Driver Signature EV

930am 10-12-12

Material/Note(s):

EA-6

Manifest Number 77919

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70360 GROSS WEIGHT 97660

NET TONS 35.18 TARE WEIGHT 27300

TICKET NUMBER 31521

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10/12/12 10:30

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,919

Ticket Number: 9931521 31521

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97660 lb
27300 lb
70360 lb

NET (Tons):
35.180 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/12/12 Tare Time 10:29 am Gross Time 10:29 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM172H

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE 24TH ST. LLC

Authorized By (sig) 0956 12OCT12

Transporter:
CP Trucking

2

Driven By Hernando C

Truck/Trailer Plate AL975N

Driver Signature 10.05 10/12/12

Material/Note(s): EA-6 / EA-4

Manifest Number 77918

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67760 GROSS WEIGHT 96560

NET TONS 33.88 TARE WEIGHT 28800

TICKET NUMBER 31528

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10/12/12 10:51

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,918

Ticket Number: 9931528 31528

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
96560 lb
28800 lb
67760 lb

NET (Tons):
33.880 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
10/12/12	10:50 am	10:50 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL975N

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/ W 24TH ST

Authorized By (sig) [signature]

10/6 12OCT12

Transporter:

CP Trucking

2

Driven By WASHINGTON

Truck/Trailer Plate #47 AN1PL

Driver Signature [signature]

Material/Note(s):

EA-6

Manifest Number 77917

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 20920 GROSS WEIGHT 109300

NET TONS _____ TARE WEIGHT 88380

TICKET NUMBER 31532

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

3

Date/Time 10:03 AM 10/12/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,917

Ticket Number: 9931532 31532

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
109300 lb
28380 lb
80920 lb

NET (Tons):
40.460 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/12/12 Tare Time 11:02 am Gross Time 11:03 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN170L

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DECKARD OF LANGAN

Authorized By (title): AGENT OF HIGHLINE/ W 24TH ST. LLC

Authorized By (sig): Lindsay Deckard

1121 12OCT12

Transporter:

CP Trucking LLC

2

Driven By: Eric Vera

Truck/Trailer Plate: AM172H

Driver Signature: EV

1140 10-12-12

Material/Note(s): EA-6 | EA-4

Manifest Number: 77916

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 78760 GROSS WEIGHT 106060

NET TONS 39.38 TARE WEIGHT 27300

TICKET NUMBER 31553

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): VB

Receiving Facility:

3

Date/Time: 10/12/12 12:18

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,916

Ticket Number: 9931553 31553

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
106060 lb
27300 lb
78760 lb

NET (Tons):
39.380 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
10/12/12	12:17 pm	12:18 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM172H EU

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/ W 24 TH ST LLC

Authorized By (sig) Lindsay Dale

1130 120912

Transporter:

CP Trucking #17

2

Driven By Fernando C.

Truck/Trailer Plate AL975N

Driver Signature

1200 10/12/12

Material/Note(s): EA-4/EA-6

Manifest Number 77914

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70630 GROSS WEIGHT 99480

NET TONS 35.34 TARE WEIGHT 28850

TICKET NUMBER 31572

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10/12/12 1:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,914

Ticket Number: 9931572 31572

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
99480 lb
28800 lb
70680 lb

NET (Tons):
35.340 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
10/12/12	1:00 pm	1:00 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL975N

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/ W 24 TH ST LLC

Authorized By (sig) Lindsay Deckard

1157 12OCT12

Transporter:

CP Trucking

2

Driven By WASHINGTON

Truck/Trailer Plate #47 AN170C

Driver Signature

Material/Note(s):

EA-6 | EA-4

Manifest Number 77915

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77140 GROSS WEIGHT 105520

NET TONS 38.57 TARE WEIGHT 28380

TICKET NUMBER 31573

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10/12/12 1:02

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,915

Ticket Number: 9931573 31573

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105520 lb
28380 lb
77140 lb

NET (Tons):
38.570 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/12/12 Tare Time 1:02 pm Gross Time 1:02 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
CP 47

Driver Name and Signature (conditional):
AN170

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/ W 24 TH ST. LLC

Authorized By (sig) [signature]

1305 120CT12

Transporter:

CP Trucking LLC

2

Driven By Eric Vera

Truck/Trailer Plate CP07 AM172H

Driver Signature EV

120pm 10-12-12

Material/Note(s):

EA-4

Manifest Number 77913

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 75160 GROSS WEIGHT 102460

NET TONS 37.58 TARE WEIGHT 27300

TICKET NUMBER 31590

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

3

Date/Time 10/12/12 2:20pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,913

Ticket Num. 9931590

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
102460 lb
27300 lb
75160 lb

NET (Tons):
37.580 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/12/12 Tare Time 2:19 pm Gross Time 2:20 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM172H EV

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY BECKARD OF LANGAN

Authorized By (title) AGENT OF HIGHLINE/ W 24TH ST LLC

Authorized By (sig) Lindsay Beckard

1340 12 OCT 12

Transporter:

CP Trucking

2

Driven By WASHINGTON

Truck/Trailer Plate #47 AN170L

Driver Signature

Material/Note(s): EA-4

Manifest Number 77912

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72680 GROSS WEIGHT 101060

NET TONS 36.34 TARE WEIGHT 28380

TICKET NUMBER 35693

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10/12/12 2:41pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,912

Ticket Number: 9931593 31593

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4612
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
101060 lb
28380 lb
72680 lb

NET (Tons):
36.340 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/12/12 Tare Time 2:40 pm Gross Time 2:41 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
CP47

Driver Name and Signature (conditional):
AN170L

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DECKARD OF LANGAN

Authorized By (title): AGENT OF HIGHLINE/ W 24TH ST LLC

Authorized By (sig): Lindsay Deckard

1404 12OCT12

Transporter: CP Trucking

2

Driven By: Fernando C

Truck/Trailer Plate: AL975N

Driver Signature: Fdo C

2.15 10/12/12

Material/Note(s): EA-4 / EA-6

X

Manifest Number: 77911

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60020 GROSS WEIGHT 88820

NET TONS 30.01 TARE WEIGHT 28800

TICKET NUMBER 31606

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): VB

Receiving Facility:

3

Date/Time: 10/12/12 3:24 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,911

Ticket Number: 9931606 31606

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
88820 lb
28800 lb
60020 lb

NET (Tons):
30.010 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
10/12/12	3:23 pm	3:23 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL975N

Truck Plate Number: AL975N

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,861

Ticket Number: 9931684 31684

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4812
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
REG SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
99140 lb
27600 lb
71540 lb

NET (Tons):
35.770 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/15/12 Tare Time 3:06 pm Gross Time 3:07 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
CP Trucking

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK485D
F Baur

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) as agent for W 24th St / Highline LLC

Authorized By (sig) Christine B Madsen agent for Highline W 24th St LLC

TIME: 0721 DATE: 10/15/2012

Transporter:

CP Truckins LLC

2

Driven By Eric Vera

Truck/Trailer Plate CP07 AM172H

Driver Signature EV

TIME: 7:35am DATE: 10-15

Manifest Number 77853

Material/Note(s):

SITE LOCATION:

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70460 GROSS WEIGHT 97760

NET TONS 35.23 TARE WEIGHT 27300

TICKET NUMBER 31619

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duryea Avenue
Jersey City, NJ

3

Date/Time 10/15/12 8:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,853

Ticket Number: 9931619 31619

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97760 lb
27300 lb
70460 lb

NET (Tons):
35.230 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/15/12 Tare Time 8:12 am Gross Time 8:13 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AMITZH
EY

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) as agent for Highline W24th St LLC

Authorized By (sig) Christine Madsen

0737 10/15/2012

Transporter:

CP. Trucking

2

Driven By WASHINGTON

Truck/Trailer Plate #37 AN 2941

Driver Signature

Material/Note(s):

Manifest Number 77982

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 74620 GROSS WEIGHT 103800

NET TONS 37.31 TARE WEIGHT 29180

TICKET NUMBER 31622

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valera B.

Receiving Facility:

3

Date/Time 10/15/12 8:39

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,982

Ticket Number: 9931622 31622

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON-RESIDENTIAL
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
103800 lb
29180 lb
74620 lb

NET (Tons):
37.310 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
10/15/12	8:39 am	8:39 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN294J

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B. Madsen

Authorized By (title) As agent for Highline W 24th St LLC

Authorized By (sig) Christine B Madsen

0759 10/15/2012

Transporter:

C.P. TRUCKING LLC

2

Driven By FRANK V.

Truck/Trailer Plate AK485D

Driver Signature

Material/Note(s):

EA-5

Manifest Number 77983

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66820 GROSS WEIGHT 94420

NET TONS 33.41 TARE WEIGHT 27600

TICKET NUMBER 31624

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria B.

Receiving Facility:

3

Date/Time 10/15/12 8:59

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) FRANK V.

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,983

Ticket Number: 9931624 31624

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
Non Regulated Material
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
94420 lb
27600 lb
66820 lb

NET (Tons):
33.410 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
10/15/12	8:58 am	8:58 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
CP TRUCKING LLC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK485D

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline West 24th St. LLC

Authorized By (sig) Christie B Madsen

0811 10/16/2012

Transporter:

C P. TRUCK

97

2

Driven By ANTONIO PAIVA

Truck/Trailer Plate AN170L

Driver Signature

Material/Note(s): EA 3/5

Manifest Number 77984

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70400 GROSS WEIGHT 105080

NET TONS 38.35 TARE WEIGHT 28380

TICKET NUMBER 21626

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Vallia B.

Receiving Facility:

3

Date/Time 10/15/12 9:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,984

Ticket Number: 31626

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Location and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105080 lb
28380 lb
76700 lb

NET (Tons):
38.350 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date	Tare Time	Gross Time
10/15/12	9:04 am	9:04 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
CP 47

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
ANTOL

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] INE 508 WEST 24TH STREET LLC
[illegible] 10

[illegible] EST 24TH STREET
[illegible], NY 10010
[illegible] 5 LOT 44

[illegible] 1.2

1

Authorized By (print) Christie B Madsen

Authorized By (title) as Agent for Highline West 24th St LLC

Authorized By (sig) Christie B Madsen

TIME 0940 DATE 10/15/2012

Transporter:

CP Trucking LLC

2

Driven By Eric Vera

Truck/Trailer Plate CP07 AM172H

Driver Signature EV

TIME 10am DATE 10-15-12

Material/Note(s):

SITE LOCATION EA-6

[illegible]

[illegible]

Manifest Number 77854

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 74520 GROSS WEIGHT 101820

NET TONS 37.26 TARE WEIGHT 27300

TICKET NUMBER 81637

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:

[illegible] Landfill Closure Site
Dunton [illegible]
[illegible]

3

Date/Time 10/15/12 10:23

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,854

Ticket Number: 9931637 31637

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512 Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs): 101820 lb
27300 lb
74520 lb

Gross : 101820
tare : 27300
Net : 74520

NET (Tons): 37.260 tn

Part 3 WEIGHT CETIFICATION

Ryan Adair

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

CP

Name of Scale Operator: 10/15/12 Tare Time 10:22 am Gross Time 10:23 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): AM172H

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
[illegible]

[illegible] 24th Street
[illegible] 10010
[illegible] 5 Lot 44

[illegible] 512

1

Authorized By (print) Christine B Madsen

Authorized By (title) as Agent of Highline W 24th St LLC

Authorized By (sig) Christine B Madsen

Time: 0000 1001 Date: 10/15/2012

Transporter:

CP TRUCKING
ELIZABETH
NJ

2

Driven By WASHINGTON

Truck/Trailer Plate #37 AN294J

Driver Signature

Time: Date:

Manifest Number 77855

Material/Note(s):

Site Location: EA-6

Residential

Roll Off Dumpster

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 80460 GROSS WEIGHT 109640

NET TONS 40.23 TARE WEIGHT 29180

TICKET NUMBER 21638

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Closure Site
[illegible]

3

Date/Time 10/15/12 10:44

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~77,855~~

Ticket Number: 31638 ~~9931638~~

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

NOTES: res

WEIGHT

GROSS/TARE/NET (lbs)
109640 lb
29180 lb
80460 lb

NET (Tons):
40.230 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
Date and Time In and Out: 10/15/12	10:43 am	10:44 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: CP

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN294J

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street
[illegible]
[illegible] 10010
[illegible] Lot 44
[illegible] 12

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for Highline W 24th St LLC

Authorized By (sig) Christine B Madsen

Time 1026 Date 10/15/2012

Transporter:

CP TRUCKING LLC

2

Driven By FRANK V

Truck/Trailer Plate AK 485D

Driver Signature [signature]

Time [illegible] Date [illegible]

Material/Note(s):

[illegible] EA-6

Manifest Number 77856

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77500 GROSS WEIGHT 105100

NET TONS 38.75 TARE WEIGHT 2760

TICKET NUMBER 31645

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria [illegible]

Receiving Facility:

[illegible] Hill Closure Site
[illegible]

3

Date/Time 10/15/12 11:11

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,856

Ticket Number: 9931645 31645

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105100 lb
27600 lb
77500 lb

NET (Tons):
38.750 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:

	Tare Time	Gross Time
10/15/12	11:10 am	11:10 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
C P Trucking

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK4BBD

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

West 24th Street LLC

24th Street
10010
Lot 44

312

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for Highline West 24th St. LLC

Authorized By (sig) Christine B Madsen

Time: 1048 Date: 10/15/2012

Transporter:

CP. TRUCK

No 47

2

Driven By ANTONIO PAIVA

Truck/Trailer Plate AN 170L

Driver Signature

Time: Date:

Manifest Number 77857

IMPACT ENVIRONMENTAL

Material/Note(s):

Site Location: EA-6

Hazardous

Non Hazardous

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 79040 GROSS WEIGHT 107420

NET TONS 39.52 TARE WEIGHT 28380

TICKET NUMBER 31649.

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria

Receiving Facility:

Closure Site

3

Date/Time 10/15/12 11:31.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,857

Ticket Number: 9931649 31649

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
107420 lb
28380 lb
79040 lb

NET (Tons):
39.520 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/15/12 Tare Time 11:30 am Gross Time 11:31 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
CP 47

Driver Name and Signature (conditional):
AN170L

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 1ST 24th Street
[illegible]
[illegible]

[illegible] 10001
New York, NY [illegible]
[illegible]

[illegible]

1

Authorized By (print) Christine B Madsen

Authorized By (title) Agent for Highline West 24th St. LLC

Authorized By (sig) Christine B Madsen

TIME: 1221 DATE: 10/15/2012

Transporter:

CP Trucking LLC

2

Driven By Eric Vera

Truck/Trailer Plate CP07 AM172H

Driver Signature EV

TIME: 12 40pm DATE: 10-15-12

Material/Note(s):

Site Location: EA-6

[illegible]

[illegible]

Manifest Number 77858

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72640 GROSS WEIGHT 99940

NET TONS 36.32 TARE WEIGHT 27300

TICKET NUMBER 31664

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria Ro

Receiving Facility:

[illegible] Laguna Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 10/15/12 1:05

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,858

Ticket Number: 9931664 31664

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
REG SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
99940 lb
27300 lb
72640 lb

NET (Tons):
36.320 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 10/15/12 Tare Time 1:03 pm Gross Time 1:05 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM172H

EV

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 509 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) Agent of Highline W 24th St LLC

Authorized By (sig) Christie B Madsen

TIME: 1326 DATE: 10/15/2012

Transporter:

CP TRUCKING
ELIZABETH
NJ

2

Driven By WASHINGTON

Truck/Trailer Plate #37 AN 294J

Driver Signature

TIME: DATE:

Manifest Number 77859

Material/Note(s):

SITE LOCATION: EA-6

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 73860 GROSS WEIGHT 103060

NET TONS _____ TARE WEIGHT 29180

TICKET NUMBER 31676

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2:11 PM 10/15/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,859

Ticket Number: 9931676 31676

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4812
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
REG SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
103060 lb
29180 lb
73880 lb

NET (Tons):
36.940 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Tare Time	Gross Time
10/15/12 2:10 pm	2:11 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN290

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 23RD STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent of Highline West 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 1403 DATE: 10/15/2012

Transporter:

CP Truckin LLC

2

Driven By Eric Vera

Truck/Trailer Plate CP07 AM172H

Driver Signature EV

TIME: 220pm DATE: 10-15-12

Material/Note(s):

SITE LOCATION: EA-4

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 77860

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71260 GROSS WEIGHT 98560

NET TONS 35.63 TARE WEIGHT 27300

TICKET NUMBER 31682

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria B

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 10/16/12 2:50pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) EV

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,860

Ticket Number: 9931682 31682

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4812
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
REG 60U
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
98560 lb	35.630 tn
27300 lb	
71260 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Tare Time	Gross Time
10/15/12 2:48 pm	2:49 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

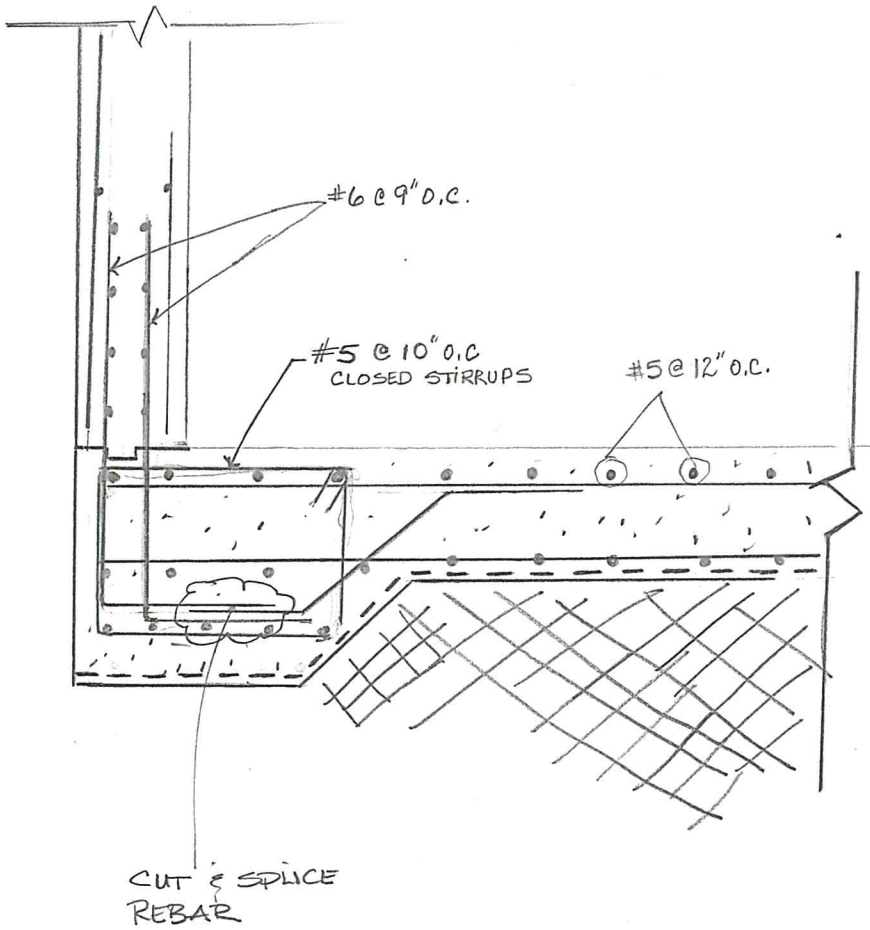
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM172H
EV

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL



Oct, 25, 2012

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,880 38135

Ticket Number: 38135

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

92820 lb
27000 lb
65820 lb

NET (Tons): 32.910 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 1/3/13 9:17 am Gross Time 9:17 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN368Z

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE LLC W 24TH ST

Authorized By (title) LANGAN STAFF

Authorized By (sig) 0815 31JAN13

Transporter:

2

Driven By JUNI

Truck/Trailer Plate AN3682

Driver Signature 0815 31JAN13

Material/Note(s):

Manifest Number 77880

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65820 GROSS WEIGHT 92820

NET TONS 32.91 TARE WEIGHT 27000

TICKET NUMBER 38135

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) JUNI.

Receiving Facility:

3

Date/Time 8.10 9:17am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,882 38138

Ticket Number: 38138

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

99060 lb
26580 lb
72480 lb

NET (Tons):

36.240 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 1/3/13 9:28 am Gross Time 9:28 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN3677

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANDLAND STAFF

Authorized By (sig): 0829 3JAN13

Transporter:

#1
KCK TRUCKING GROUP

2

Driven By: JAMES PEREIRA

Truck/Trailer Plate: AN3677

Driver Signature: 0829 3JAN13

Material/Note(s):

Manifest Number: 77882

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72460 GROSS WEIGHT 99060

NET TONS 36.24 TARE WEIGHT 26580

TICKET NUMBER 38138

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): M. P

Receiving Facility:

3

Date/Time: 01/03/13 9:28am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,886

Ticket Number: 38158

38158

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99980 lb	
26580 lb	36.700 tn
73400 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 1/3/13 11:08 am Gross Time 11:09 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN3677

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): Lindsay

1018 3JAN13

Transporter:

#1
KCK GROUP

2

Driven By: JAIME PEREIRA

Truck/Trailer Plate: AN3672

Driver Signature:

1018 3JAN13

Material/Note(s):

X

Manifest Number: 77886

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 73400 GROSS WEIGHT 99980

NET TONS 36.7 TARE WEIGHT 26580

TICKET NUMBER 38158

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): M. F

Receiving Facility:

3

Date/Time: 01/03/13 11:09am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. /
Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,885

Ticket Number: 38163

38163

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

90180 lb
30000 lb
60180 lb

NET (Tons):

30.090 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time Gross Time
1/3/13 11:26 am 11:26 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN370Z
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): 1030 30 JAN 13

Transporter:

~~KGK GROUP LLC~~
TERRA EXPRESS
#4

2

Driven By: WALTON

Truck/Trailer Plate: AN3702

Driver Signature: 1030 30 JAN 13

Material/Note(s):

X

Manifest Number: 77885

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60180 GROSS WEIGHT 90180

NET TONS 30.09 TARE WEIGHT 30000

TICKET NUMBER 38163

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

3

Date/Time: 01/03/13 11:26am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,884

Ticket Number: 38195

38195

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

92080 lb
27000 lb
65080 lb

NET (Tons):

32.540 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 1/3/13 1:12 pm Gross Time 1:12 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN3687

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): 1042 3JAN13

Transporter:

KCK GROUP (SPOILED TRUCKING) #3

2

Driven By:

Truck/Trailer Plate: AN368Z

Driver Signature: 1042 3JAN13

Material/Note(s):

Manifest Number: 77884

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65080 GROSS WEIGHT 92080

NET TONS 32.54 TARE WEIGHT 27000

TICKET NUMBER 38195

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

3

Date/Time: 1/3/13 1:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,108~~ ~~40305~~

Ticket Number: 40305

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

94120 lb
28500 lb
65620 lb

NET (Tons):

32.810 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time 1/3/13 1:40 pm Gross Time 1:41 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AL876T

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE W24 TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1130 DATE: 3JAN13

Transporter:

#2
JDC TRUCKING

2

Driven By

Truck/Trailer Plate AL876T

Driver Signature

TIME: 1130 DATE: 3JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97108

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65620 GROSS WEIGHT 84120

NET TONS 32.81 TARE WEIGHT 28500

TICKET NUMBER 40305

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/3/13 1:41pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,107~~ ~~40313~~

Ticket Number: 40313

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

101220 lb
26580 lb
74640 lb

NET (Tons):

37.320 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/3/13 Tare Time 2:03 pm Gross Time 2:04 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN367Z

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DENGAED AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig)

TIME: 1150 DATE: 3/1/13

Transporter:

KCR GROUP

2

Driven By JAKE PORTERFIELD

Truck/Trailer Plate AN8477

Driver Signature

TIME: 1150 DATE: 3/1/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97107

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 74640 GROSS WEIGHT 101220

NET TONS 37.32 TARE WEIGHT 26580

TICKET NUMBER 40313

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 4/3/13 2:00 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,106~~ ~~40322~~

Ticket Number: 40322

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
100860 lb	
30000 lb	35.430 tn
70860 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
1/3/13	2:29 pm	2:30 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN370Z
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1217 DATE: 30 JAN 13

Transporter:

#4
TERRA EXPRESS

2

Driven By WALTON

Truck/Trailer Plate AN3702

Driver Signature

TIME: 1217 DATE: 30 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97106

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70860 GROSS WEIGHT 100860

NET TONS 35.43 TARE WEIGHT 30000

TICKET NUMBER 40,322

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 01/03/13 2:30pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,105~~ ~~40368~~

Ticket Number: 40368

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

100600 lb
28500 lb
72100 lb

NET (Tons):

36.050 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/3/13 Tare Time 5:36 pm Gross Time 5:36 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JDC 2

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AL876T

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AT AGENT FOR HIGHLINE 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig):

TIME: 1424 DATE: 30 JAN 13

Transporter:

2

JDC TRUCKING

2

Driven By: JOlivare.

Truck/Trailer Plate: AL8716T

Driver Signature:

TIME: 1424 DATE: 30 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97105

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72100 GROSS WEIGHT 100600

NET TONS 36.050 TARE WEIGHT 28500

TICKET NUMBER 40368

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): M.F

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 01/03/13 5:37pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,876 9940036

Ticket Number: 40036

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
68160 lb	
27760 lb	20.200 tn
40400 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/3/13	7:12 am	7:13 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
TERRA

Secondary Transporter Name, Address and Permit #:
TERRA

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGIAN STAFF

Authorized By (sig) Lindsay Dewd

1307 20JAN13

Transporter:

2

Driven By WALTON

Truck/Trailer Plate AN3707

Driver Signature

1307 20JAN13

Material/Note(s):

Manifest Number 77876

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 40940 GROSS WEIGHT 68160

NET TONS 20.20 TARE WEIGHT 27760

TICKET NUMBER _____

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) CS 11

Receiving Facility:

3

Date/Time 01/13/13 2:14

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,879 9940065

Ticket Number: 40065

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
80640 lb
28700 lb
51940 lb

NET (Tons):
25.970 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/3/13 Tare Time 8:16 am Gross Time 8:17 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DEVLAND AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANDLAN STAFF

Authorized By (sig):

0715 ~~1450~~ 30JAN13

Transporter:

JDC TRUCKING #2

2

Driven By: J Daniel Orozco

Truck/Trailer Plate: AL876T

Driver Signature:

0715 ~~1450~~ 30JAN13

Material/Note(s):

X

Manifest Number: 77879

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 51940 GROSS WEIGHT 80640

NET TONS 25.97 TARE WEIGHT 28700

TICKET NUMBER 40068

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

3

Date/Time: 1/3/13 8:17

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods ~~and means~~ for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,881 9940093

Ticket Number: 40093

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
85400 lb
27760 lb
57640 lb

NET (Tons):
28.820 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 1/3/13	9:24 am	9:25 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DELGARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): Lindsay Delgard

0818 3JAN13

Transporter:

TERRA EXPRESS #~~3~~ ~~WA~~ 4

2

Driven By: WALTON

Truck/Trailer Plate: AN3702

Driver Signature:

0818 3JAN13

Material/Note(s):

X

Manifest Number: 77881

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 57640 GROSS WEIGHT 85400

NET TONS 28.82 TARE WEIGHT 27760

TICKET NUMBER 40093

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

3

Date/Time: 1/3/13 9:25

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,883 9940113

Ticket Number: 40113

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
99200 lb
28700 lb
70500 lb

NET (Tons):
35.250 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/3/13 Tare Time 10:12 am Gross Time 10:13 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

0908 3JAN13

Transporter:

JDC TRUCKING #2

2

Driven By J Daniel Olivieri

Truck/Trailer Plate AL876T

Driver Signature

0908 3JAN13

Material/Note(s):

Manifest Number 77883

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70500 GROSS WEIGHT 99200

NET TONS 35.25 TARE WEIGHT 28700

TICKET NUMBER 40113

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/3/13 10:14

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,104 9940167

Ticket Number: 40167

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105600 lb
27760 lb
77840 lb

NET (Tons):
38.920 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 1/3/13	5:55 pm	5:55 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 4

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): Lindsay Deckard

TIME: 1509 DATE: 30JAN13

Transporter:

#4
TERRA
EXPRESS

2

Driven By: WALTON

Truck/Trailer Plate: AN3702

Driver Signature:

TIME: 1509 DATE: 30JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97104

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77840 GROSS WEIGHT 105600

NET TONS 38.92 TARE WEIGHT 27760

TICKET NUMBER 110167

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/31/13 5:55pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,876 9941783

Ticket Number: 41783

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95840 lb	
27760 lb	34.040 tn
68080 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
1/2/13 7:14 am	7:14 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 4

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,374 9939874

Ticket Number: 39874

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
103300 lb	
28360 lb	37.470 tn
74940 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 8:06 am Gross Time 8:07 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK817R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
[illegible]
New York NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH LLC

Authorized By (title) LANGAN ENVIRO STAFF

Authorized By (sig) [signature]

Transporter:

ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R JDC #3

Driver Signature [signature]

Material/Note(s):

Manifest Number 78374

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 24940 GROSS WEIGHT 103300

NET TONS 27.47 TARE WEIGHT 28360

TICKET NUMBER 39874

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

Linden Park West Landfill Closure Site
[illegible]
[illegible] NJ

3

Date/Time 1/2/13 8:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,375 9939881

Ticket Number: 39881

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97880 lb	
26660 lb	35.610 tn
71220 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/2/13	8:20 am	8:21 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK924W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE 29TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

Time 1132 Date 2JAN13

Transporter:

2

Driven By J. Daniel O'Brien

Truck/Trailer Plate AK 924 W

Driver Signature [signature]

Time 7:00 Date 1/2/13

Material/Note(s):

[illegible]

Manifest Number 78375

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71220 GROSS WEIGHT 97880

NET TONS 35.61 TARE WEIGHT 26660

TICKET NUMBER 39881

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Date/Time 1/2/13 8:21

Receiving Facility:

Linden Park West Landfill Closure Site

Dupont Avenue

Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77.865 9939886

Ticket Number: 39886

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99720 lb	35.510 tn
28700 lb	
71020 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/2/13	8:55 am	8:56 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

0750 2JAN13

Transporter:

JDC 2

2

Driven By

Truck/Trailer Plate AL876T

Driver Signature

Manifest Number 77865

IMPACT ENVIRONMENTAL

Material/Note(s):

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71020 GROSS WEIGHT 99720

NET TONS 35.51 TARE WEIGHT 28700

TICKET NUMBER 39886

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/2/13 8:56

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,867 9939897

Ticket Number: 39897

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
102680 lb	
27760 lb	37.460 tn
74920 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/2/13	9:43 am	9:44 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #: TERRA

Driver Name and Signature (optional): AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DELCARO AC AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANDLAN STAFF

Authorized By (sig)

0817 2JAN13

Transporter:

2

Driven By WALTON

Truck/Trailer Plate AN370Z 4

Driver Signature

Manifest Number 77867

IMPACT ENVIRONMENTAL

Material/Note(s):

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 74920 GROSS WEIGHT 102630

NET TONS 37.46 TARE WEIGHT 27760

TICKET NUMBER 39897

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/2/13 9:44

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,868 9939901

Ticket Number: 39901

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105440 lb
26820 lb
78620 lb

NET (Tons):
39.310 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 9:52 am Gross Time 9:53 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN369Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th Street LLC
[illegible]
New York, NY [illegible]

[illegible] 2nd Street
[illegible] 210
[illegible] 44
[illegible]

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

Time 0830 Date 2JAN13

Transporter:

TERRA EXPRESS.
N/J.

2

Driven By JOSE VICENTE

Truck/Trailer Plate AN3697Z 2

Driver Signature [illegible]

Time Date 1-2-13

Material/Note(s):

[illegible]

[illegible]

[illegible]

Manifest Number 77868

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 27800 GROSS WEIGHT 105440

NET TONS 39.31 TARE WEIGHT 26820

TICKET NUMBER 39901

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:

[illegible] Closure Site
[illegible]

3

Date/Time 1/2/13 9:03

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [illegible]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,869 9939934

Ticket Number: 39934

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
111020 lb
28700 lb
82320 lb

NET (Tons):
41.160 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 11:38 am Gross Time 11:38 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC 2

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th Street LLC
[illegible]

[illegible] Street
[illegible]
[illegible]

[illegible]

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE W 24TH ST. LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME 1005 DATE 2/4/13

Transporter:

JDC TRUCKING

2

Driven By

Truck/Trailer Plate AL876T #2

Driver Signature

TIME 1005 DATE 2/4/13

Material/Note(s):

[illegible]

Manifest Number 77869

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 82320 GROSS WEIGHT 111020

NET TONS 41.16 TARE WEIGHT 28700

TICKET NUMBER 39934

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Closure Site
[illegible]
[illegible]

3

Date/Time 01/02/13 11:38am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,871 9939942

Ticket Number: 39942

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
102820 lb
26820 lb
76000 lb

NET (Tons):
38.000 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 11:59 am Gross Time 12:00 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #: TERRA

Driver Name and Signature (conditional): AN369Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th Street LLC
[illegible] Street
New York, NY 10010
[illegible]

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGIAN STAFF

Authorized By (sig)

Time 1045 Date 23 JAN 13

Transporter:

TERRA EXPRESS #2

2

Driven By JOSE VICENTE

Truck/Trailer Plate AN3697

Driver Signature

Time 1045 Date 23 JAN 13

Material/Note(s):

[illegible]

[illegible]

[illegible]

Manifest Number 77871

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 76660 GROSS WEIGHT 102820

NET TONS 38.000 TARE WEIGHT 26820

TICKET NUMBER 39942

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Closure Site
[illegible]
[illegible]

3

Date/Time 01/02/13 12:00pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,866 9939951

Ticket Number: 39951

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
107460 lb	39.820 tn
27820 lb	
79640 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/2/13	12:25 pm	12:26 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DECLARA AS AGENT FOR HIGHLINE 24TH LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig):

Time 6:00S Date 25AN13

Transporter:

2

Driven By: JUNIOR

Truck/Trailer Plate: AN 3682 (3)

Driver Signature: Junior

Time Date

Material/Note(s):

Manifest Number: 77866

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 79640 GROSS WEIGHT 107460

NET TONS 39.82 TARE WEIGHT 27820

TICKET NUMBER 39951

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

3

Date/Time: 08.05 12:26pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~77,870~~ ~~38065~~

Ticket Number: 38065

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES NON RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
96800 lb	
30000 lb	33.400 tn
66800 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: MIKEF

Date and Time In and Out: Tare Time 1/2/13 12:17 pm Gross Time 12:18 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN370Z

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th St LLC
[illegible]
[illegible] Street
[illegible] 10
[illegible] 14
[illegible]

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Dell

Time: 1032 Date: 2/1/2013

Transporter:

2

Driven By WALTON

Truck/Trailer Plate AN3707

Driver Signature [signature]

Time: 1032 Date: 2/1/2013

Material/Note(s):

[illegible]

Manifest Number 77870

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66800 GROSS WEIGHT 96800

NET TONS 33.4 TARE WEIGHT 30000

TICKET NUMBER 38065

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

[illegible] Closure Site
[illegible]

3

Date/Time 1/2/13 12:18

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~77,872~~ ~~38083~~

Ticket Number: 38083

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
89820 lb	
28220 lb	30.800 tn
61600 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: MIKEF

Date and Time In and Out: Tare Time 1/2/13 1:09 pm Gross Time 1:10 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AK817R

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 24th Street LLC
[illegible]
[illegible] Street
[illegible]10
[illegible]4
[illegible]

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig) [signature]

Date: 12/5 Date: 20APR13

Transporter:

JDC TRUCKING
#3

[illegible]7

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R

Driver Signature [signature]

Date: 12/5 Date: 20APR13

Material/Note(s):

[illegible]

Manifest Number 77872

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61600 GROSS WEIGHT 89820

NET TONS 30.8 TARE WEIGHT 28220

TICKET NUMBER 38083

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

[illegible] Closure [illegible]
[illegible]

3

Date/Time 4/2/13 1:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,875 38095

Ticket Number: 38095

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

86520 lb
29840 lb
56680 lb

NET (Tons):

28.340 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: MIKEF

Date and Time In and Out: 1/2/13 Tare Time 1:53 pm Gross Time 1:53 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN3697

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

1252 2JAN13

Transporter:

TERRA EXPRESS #2

2

Driven By JOSE VICENTE

Truck/Trailer Plate AN3697

Driver Signature JOSE VICENTE

1252 2JAN13

Material/Note(s):

Manifest Number 77875

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 56680 GROSS WEIGHT 86520

NET TONS 28.34 TARE WEIGHT 29840

TICKET NUMBER 38095

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/2/13 1:54pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,873 9939974

Ticket Number: 39974

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
96580 lb
26660 lb
69920 lb

NET (Tons):
34.960 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 1:33 pm Gross Time 1:34 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC 4

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK924W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 24TH ST LLC

Authorized By (title) LANDLAN STAFF

Authorized By (sig)

Time 1224 Date 23JAN13

Transporter:

4

2

Driven By J Donald Owen

Truck/Trailer Plate AK924W

Driver Signature

Time 1224 Date 23JAN13

Material/Note(s):

Manifest Number 77873

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69920 GROSS WEIGHT 96580

NET TONS 34.96 TARE WEIGHT 26660

TICKET NUMBER 39974

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 01/02/13 1:34pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,874 9939977

Ticket Number: 39977

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
98720 lb
28700 lb
70020 lb

NET (Tons):
35.010 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 1:45 pm Gross Time 1:46 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC 2

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE W24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig)

Time 1237 Date 2JAN13

Transporter:

JAC TRUCKING #2

2

Driven By JACK

Truck/Trailer Plate AL876T

Driver Signature

Time 1237 Date 2JAN13

Material/Note(s):

Manifest Number 77874

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70020 GROSS WEIGHT 98720

NET TONS 35.010 TARE WEIGHT 28700

TICKET NUMBER 39477

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) M. F

Receiving Facility:

3

Date/Time 01/02/13 1:46pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,877 9939999

Ticket Number: 39999

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99640 lb	
27820 lb	35.910 tn
71820 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/2/13	2:54 pm	2:54 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DELGADO AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

1326 2JAN13

Transporter:

SPOILED TRUCKING LLC
3

2

Driven By JUNIO

Truck/Trailer Plate AN 3U8 Z

Driver Signature

1326 2JAN13

Material/Note(s):

Manifest Number 77877

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71820 GROSS WEIGHT 99640

NET TONS 35.91 TARE WEIGHT 27820

TICKET NUMBER 39999

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) JUNIOR

Receiving Facility:

3

Date/Time 01/02/13 2:55pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,878 9940002

Ticket Number: 40002

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
101080 lb	36.360 tn
28360 lb	
72720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/2/13 Tare Time 3:05 pm Gross Time 3:06 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC 3

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK817R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DEVLIN AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig) 1355 20APR13

Transporter:

JDC TRUCKING #3

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R

Driver Signature 1355 20APR13

Material/Note(s):

Manifest Number 77878

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72720 GROSS WEIGHT 101080

NET TONS 36.36 TARE WEIGHT 28360

TICKET NUMBER 48,002

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 01/02/13 3:06pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,067

Ticket Number: 43443 43443

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

99860 lb
30520 lb
69340 lb

NET (Tons): 34.670 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	2:59 pm	3:00 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: MENDE

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): CARLOS CORREIA

Truck Plate Number: AM320V

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Stephanie Frank

Authorized By (title): Agent of Highline 508 W. 24th St LLC

Authorized By (sig):

TIME: 14:00 DATE: 2/6/13

Transporter:
MENDEZ TRUCKING
490 UNION AVE
BELLEVILLE NJ 07109

2

Driven By: CARLOS CORREA

Truck/Trailer Plate: #223 AM380V

Driver Signature: Carlos Correa

TIME: 2:20 PM DATE: 2/6/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97067

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 99860

NET TONS 34.67 TARE WEIGHT 30520

TICKET NUMBER 43443

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 2/6/13 3:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Carlos Correa

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,066~~ ~~9946062~~

Ticket Number: 46062

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON-RES SOIL

non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99360 lb	
28500 lb	35.430 tn
70860 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	3:19 pm	3:19 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

mende

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
Mendez 91

Driver Name and Signature (conditional):
AN556Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 1425 DATE: 2/20/13

Transporter:
MENDEZ
#91

2

Driven By Luis Tello

Truck/Trailer Plate AN 556Y

Driver Signature Luis Tello
TIME:_____ DATE:_____

Material/Note(s):
SITE LOCATION: _____
RESIDENTIAL ☐
NON-RESIDENTIAL ☒

Manifest Number 97066

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT _____ GROSS WEIGHT 99360
NET TONS 35.43 TARE WEIGHT 28500
TICKET NUMBER 48300

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:
Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/20/13 3:20

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Luis Tello

LINCOLN PARK WEST

Managed by Persistent Construction Corp. /
Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97 033 9948281

Ticket Number: 48281

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95860 lb	
28500 lb	33.680 tn
67360 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	1:50 pm	1:51 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Mandez 91 Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN556Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)
TIME: 1302 DATE: 2/6/13

Transporter:
MENDEZ
#91

2

Driven By Luis Tello

Truck/Trailer Plate ANS50Y

Driver Signature Luis Tello
TIME:_____ DATE:_____

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97033

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 67360 GROSS WEIGHT 95860
NET TONS 33.68 TARE WEIGHT 28500
TICKET NUMBER 48281

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 1:50pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Luis Tello

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,032 9948274

Ticket Number: 48274

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99880 lb	
29860 lb	35.010 tn
70020 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out	Tare Time	Gross Time
2/6/13	1:31 pm	1:31 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM320V CARLOS CORREA

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Stephanie Frank

Authorized By (title): Agent of Highline 508 W. 24th St. LLC

Authorized By (sig):

TIME: 1240 DATE: 2/6/13

Transporter:
MENDEZ TRUCKING
490 UNION AVE
BELLEVILLE NJ 07109

2

Driven By: CARLOS CORREA

Truck/Trailer Plate: #223 AM320V

Driver Signature: Carlos Correa

TIME: 1:00 PM DATE: 2/6/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97032

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70020 GROSS WEIGHT 99880

NET TONS 35.01 TARE WEIGHT 29860

TICKET NUMBER 48274

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 2/6/13 1:31

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Carlos Correa

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,037 9948264

Ticket Number: 48264

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
106340 lb	
28920 lb	38.710 tn
77420 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above-named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	12:32 pm	12:33 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL337N

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Stephanie Frank

Authorized By (title): Agent of Highline 508 W. 24th St. LLC

Authorized By (sig):

TIME: 1144 DATE: 2/6/13

Transporter:
Mendes
#83

2

Driven By: Jorge Salazar

Truck/Trailer Plate: AL337N

Driver Signature:

TIME: DATE:

Material/Note(s):
SITE LOCATION:

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97037

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 77420 GROSS WEIGHT 106340
NET TONS 38.71 TARE WEIGHT 28920
TICKET NUMBER 48264.

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 2/6/13 12:33pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97.035 9948246

Ticket Number: 48246

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
100060 lb	
29860 lb	35.100 tn
70200 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	11:37 am	11:38 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MUNDE

Primary Transporter Name, Address and Permit #:

MENDEZ 226

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM329V CARLOS CORREA

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 1052 DATE: 2/6/13

Transporter:
MENDEZ TRUCKING
490 UNION AVE
BELLEVILLE NJ 07109

2

Driven By CARLOS CORREA

Truck/Trailer Plate #223 AM320V

Driver Signature
TIME: 11:10 AM DATE: 2/6/13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97035

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT _____ GROSS WEIGHT 100060
NET TONS 35.10 TARE WEIGHT 70200
TICKET NUMBER 9948246

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Ct

Receiving Facility:
Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 11:39

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,034 9948234

Ticket Number: 48234

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97160 lb	
31220 lb	32.970 tn
65940 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	10:54 am	10:55 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN550M

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 1010 DATE: 2/6/13

Transporter:
Hernandez #10

2

Driven By Jaime Velasco

Truck/Trailer Plate AN 550 M

Driver Signature
TIME: DATE: 2-6-13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97034

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 65940 GROSS WEIGHT 97160
NET TONS 32.97 TARE WEIGHT 31220
TICKET NUMBER 48234

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 10:55

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,029 9948232

Ticket Number: 48232

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97840 lb	
28400 lb	34.720 tn
69440 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	10:48 am	10:50 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN694R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St LLC
Authorized By (title)

Authorized By (sig)
TIME: 0755 DATE: 2/6/13

Transporter:
Mendez Trucking

2

Driven By Johan S

Truck/Trailer Plate A 06948

Driver Signature
TIME: 0755 DATE: 2/6/13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97029

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 69440 GROSS WEIGHT 97840
NET TONS 34.72 TARE WEIGHT 28400
TICKET NUMBER U8232

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 10:50

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,028 9948219

Ticket Number: 48219

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
102380 lb
28920 lb
73460 lb

NET (Tons):
36.730 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	10:06 am	10:06 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL337N

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

TIME: 0922 DATE: 2/6/13

Transporter:
Mendes
#83

2

Driven By George Salazar

Truck/Trailer Plate AL337XV

Driver Signature

TIME:_____ DATE:_____

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97028

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 73460 GROSS WEIGHT 102330

NET TONS 36.73 TARE WEIGHT 28970

TICKET NUMBER 48219

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 10:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,027 9948214

Ticket Number: 48214

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
94340 lb	
28900 lb	32.720 tn
65440 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	9:51 am	9:53 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Mendez 87 Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN719Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

631336712
MACC

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Stephanie Frank

Authorized By (title): Agent of Highline 508 W 24th St, LLC

Authorized By (sig):

TIME: 09:01 DATE: 2/6/13

Transporter:
Alexander 4187

2

Driven By: Santiago Sicad

Truck/Trailer Plate: AN7197 4187

Driver Signature:

TIME: 7:10AM DATE: 2-6-13

Material/Note(s):
SITE LOCATION: 508 W 24th St NY NY

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97027

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 65544 GROSS WEIGHT 94340
NET TONS 32.77 TARE WEIGHT 28700
TICKET NUMBER 48214

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Date/Time: 2/6/13 9:53

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,024 9948206

Ticket Number: 48206

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
101120 lb	
28500 lb	36.310 tn
72620 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	9:28 am	9:28 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Mendez 91

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN556Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

TIME: 1635 DATE: 2/6/13

Transporter:
MENDEZ #91

2

Driven By Luis Tello

Truck/Trailer Plate AN 556 Y

Driver Signature Luis Tello

TIME: 8:38 DATE: 2-6-13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97024

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 77620 GROSS WEIGHT 101120
NET TONS 38.81 TARE WEIGHT 28500
TICKET NUMBER 48206

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:
Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 9:29

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Luis Tello

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97.025 9948202

Ticket Number: 48202

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97580 lb	
29860 lb	33.860 tn
67720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	9:19 am	9:19 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

MENDEZ 228 sporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AM329V Carlos Correa / CSCu

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 0820 DATE: 2/6/13

Transporter:
MENDEZ TRUCKING
490 UNION AVE
BELLEVILLE NJ 07109

2

Driven By CARLOS CORREA

Truck/Trailer Plate #223 AM320V

Driver Signature
TIME: 8:30 AM DATE: 2/6/13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97025

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 67720 GROSS WEIGHT 97580
NET TONS 33.86 TARE WEIGHT 29860
TICKET NUMBER 48202

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 9:19

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,026 9948194

Ticket Number: 48194

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99780 lb	
31220 lb	34.280 tn
68560 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 2/6/13	8:55 am	8:55 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN550M

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)
TIME: 0752 DATE: 2/6/13

Transporter:

Hernandez #10

2

Driven By Jaime Velasco

Truck/Trailer Plate AU 550 M

Driver Signature
TIME: DATE: 2-6-13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97026

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 68760 GROSS WEIGHT 99780
NET TONS 34.28 TARE WEIGHT 31220
TICKET NUMBER U8194

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 8:50

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,022 9948187

Ticket Number: 48187

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99060 lb	
28400 lb	35.330 tn
70660 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	8:37 am	8:37 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN694R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 0743 DATE: 2/6/13

Transporter:
Mendez Trucking
#21

2

Driven By Johan Solano

Truck/Trailer Plate 1N6796R

Driver Signature
TIME:_____ DATE:_____

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97022

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 70660 GROSS WEIGHT 99060
NET TONS 35.33 TARE WEIGHT 28400
TICKET NUMBER 48187

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 8:37

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,021 9948179

Ticket Number: 48179

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NOTES:
NON RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
107180 lb	
28920 lb	39.130 tn
78260 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	8:13 am	8:13 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL337N

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

#83

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

TIME: 0728 DATE: 2/6/13

Transporter:

Mendez

2

Driven By Jorge Salazar

Truck/Trailer Plate AL 3571

Driver Signature

TIME: 0728 DATE: 2/6/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97021

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 78260 GROSS WEIGHT 107180

NET TONS 39.13 TARE WEIGHT 28920

TICKET NUMBER 48179

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 8:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97.023 9948173

Ticket Number: 48173

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
96160 lb	
28900 lb	33.630 tn
67260 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	7:58 am	7:58 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

MENDE

Primary Transporter Name, Address and Permit #:

Mendez 87

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN719Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 0718 DATE: 2/6/13

Transporter:
Mendez #87

2

Driven By Santiago Sicea

Truck/Trailer Plate AN7197 #87

Driver Signature
TIME: 7:25AM DATE: 2-6-13

Material/Note(s):
SITE LOCATION: 508w 24th st NY/NY

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97023

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 6726 GROSS WEIGHT 96160
NET TONS 33.63 TARE WEIGHT 28900
TICKET NUMBER 48173

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 7:59.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,031

Ticket Number: 43429 43429

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

95180 lb
30700 lb
64480 lb

NET (Tons): 32.240 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	1:03 pm	1:03 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: MENDE

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN550M

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
TIME: 12:20 DATE: 2/6/13

Transporter:

Hepdez #10

2

Driven By Jaime Velasco

Truck/Trailer Plate AN 5501M

Driver Signature
TIME: DATE: 2-6-13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 87031

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 65180

NET TONS 32.24 TARE WEIGHT 30700

TICKET NUMBER 43429

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 1:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 94,030

Ticket Number: 43425 43425

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

92880 lb
28940 lb
63940 lb

NET (Tons): 31.970 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	12:49 pm	12:51 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: MENDE

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN694R

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)

TIME: 1210 DATE: 2/6/13

Transporter:
Mendez Trucking
#21

2

Driven By Johan S

Truck/Trailer Plate A N6947R

Driver Signature

TIME:_____ DATE:_____

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97030

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 92880

NET TONS 31.97 TARE WEIGHT 28940

TICKET NUMBER 43425

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 12:51

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,036

Ticket Number: 43418 43418

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: NON-RES

NOTES: non res

WEIGHT

GROSS/TARE/NET (lbs)

101560 lb
29100 lb
72460 lb

NET (Tons): 36.230 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
2/6/13	12:13 pm	12:13 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: mende

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN556Y
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St LLC
Authorized By (title)

Authorized By (sig)
TIME: 1120 DATE: 2/6/13

Transporter:
MENDEZ #91

2

Driven By Luis Tello

Truck/Trailer Plate AU 556Y

Driver Signature Luis Tello
TIME: 1120 DATE: 2/6/13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97036

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT _____ GROSS WEIGHT 101560
NET TONS 36.23 TARE WEIGHT 29100
TICKET NUMBER 43 418

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:
Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 2/6/13 12:14

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Luis Tello

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,370

Ticket Number: 9936916 36916

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES 501b
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95520 lb	34.350 tn
26820 lb	
68700 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
12/11/12	9:21 am	9:22 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
TERRA

Secondary Transporter Name, Address and Permit #:
TERRA 2

Driver Name and Signature (conditional):
AN369Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th Street LLC
[illegible]
New York, NY 10010
Phone 646 [illegible]

Job# 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

0809 12/11/12

Transporter:

TERRA EXPRESS

2

Driven By JOSE

Truck/Trailer Plate AN-369-Z

Driver Signature JOSE VICENTE

Material/Note(s):

[illegible]

Manifest Number 78370

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 68700 GROSS WEIGHT 95520

NET TONS 34.35 TARE WEIGHT 26820

TICKET NUMBER 36916

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 12/11/12 9:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,371

Ticket Number: 9936921 36921

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95540 lb	33.890 tn
27760 lb	
67780 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
9:35 am	9:35 am

Date and Time In and Out: 12/11/12

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 1

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]

Site 508 West 24th Street

New York NY 10010

Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)

Time 0830 Date 12/11/12

Transporter:

TERRA EXP

2

Driven By WALTON

Truck/Trailer Plate AN 3702

Driver Signature

Time Date

Material/Note(s):

[illegible]

Manifest Number 78371

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67780 GROSS WEIGHT 95540

NET TONS 33.89 TARE WEIGHT 27760

TICKET NUMBER 36921

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site

Dunsen Avenue

Jersey City, NJ

3

Date/Time 12/11/12 9:35

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,372

Ticket Number: 36957 9936957

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97600 lb
27760 lb
69840 lb

NET (Tons):
34.920 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 12/11/12 Tare Time 11:27 am Gross Time 11:27 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St.
Authorized By (title)

Authorized By (sig)

1041 12/11/12

Transporter:

TERRA EXP.

2

Driven By WALTON

Truck/Trailer Plate BN 370Z

Driver Signature

Material/Note(s):

Manifest Number 78372

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 49840 GROSS WEIGHT 97600
NET TONS 34.92 TARE WEIGHT 27760
TICKET NUMBER 36957

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 12/11/12 11:27

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,373

Ticket Number: 9936981 36981

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97580 lb
27760 lb
69820 lb

NET (Tons):
34.910 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
12/11/12 12:57 pm	12:57 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
TERRA4

Secondary Transporter Name, Address and Permit #:
AN3702

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
[illegible]
[illegible]

[illegible] 508 West 24th Street
New York, NY 10010
Block 695 Lot 44.

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

[illegible] 1209 [illegible] 12/11/12

Transporter:

TERRA EXP.

2

Driven By WALTON

Truck/Trailer Plate AN 3702

Driver Signature

[illegible]

Material/Note(s):

[illegible]

Manifest Number 78373

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69820 GROSS WEIGHT 97580

NET TONS 34.91 TARE WEIGHT 27760

TICKET NUMBER 36981

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Landfill Closure Site
[illegible]
[illegible]

3

Date/Time 12/11/12 12:57

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78.394

Ticket Number: 9936821 36821

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
110780 lb
27820 lb
82960 lb

NET (Tons):
41.480 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
Date and Time In and Out: 12/10/12	11:58 am	11:59 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

Time 0840 Date 12/10/12

Transporter:

KLK Group llc

2

Driven By Jake Pereira

Truck/Trailer Plate AN368Z

Driver Signature

Material/Note(s):

X

Manifest Number 78394

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 85960 GROSS WEIGHT 130780

NET TONS 42.98 TARE WEIGHT 27820

TICKET NUMBER 36821.

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 12/10/12 11:59

Receiving Facility:

Lincoln Park West Landfill Closure Site
[illegible]
[illegible] NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,395

Ticket Number: 9936822 36822

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
98400 lb
26820 lb
71580 lb

NET (Tons): 35.790 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
12/10/12	12:00 pm	12:01 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA 2

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): AN3887

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]
[illegible] NY 10010
[illegible] 509 West 24th Street
New York NY 10010
Block 695 Lot 44
Job #4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th Street.
Authorized By (title)

Authorized By (sig)

TIME: 0825 DATE: 12/10/12

Transporter:

TERRA EXPRESS-

2

Driven By JOSE VILLENTE

Truck/Trailer Plate AN-369-Z-

Driver Signature

TIME: DATE: 12-10-12

Material/Note(s):

[illegible]
[illegible] XI.
[illegible]

Manifest Number 78395

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71580 GROSS WEIGHT 98400

NET TONS 35.79 TARE WEIGHT 26820

TICKET NUMBER 30822

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 12/10/12 12:01

Receiving Facility:

[illegible] Park West Landfill Closure Site
[illegible] Avenue
[illegible] City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,393

Ticket Number: 9936831 36831

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
103480 lb
27820 lb
75660 lb

NET (Tons):
37.830 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
12/10/12	1:33 pm	1:34 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
TERRA 2

Driver Name and Signature (conditional)
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]
New York NY 10010

[illegible] 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)

Time 1240 Date 12/10/12

Transporter:

KCR Group Inc

2

Driven By Jose Pereira

Truck/Trailer Plate 3/ AN 3682

Driver Signature

Material/Note(s):

[illegible]

Manifest Number 78393

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 75660 GROSS WEIGHT 103480

NET TONS 37.83 TARE WEIGHT 27820

TICKET NUMBER 36831

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Hackensack Meadowlands West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 12/10/12 1:34pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,392 9936837

Ticket Number: 36837

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material: NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
96840 lb
26820 lb
70020 lb

NET (Tons):
35.010 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba
Tare Time: 1:57 pm
Gross Time: 1:57 pm
Date: 12/10/12

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

TERRA 2

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): AN3667

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Highline 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job #4519

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

Time 1258 Date 12/10/12

Transporter:

TERRA EXPRESS.

2

Driven By JOSE

Truck/Trailer Plate AN-369K.

Driver Signature JOSE VICENTO

Time Date

Material/Note(s):

7

Manifest Number 78392

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70070 GROSS WEIGHT 96840

NET TONS 35.01 TARE WEIGHT 26870

TICKET NUMBER 36837

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 12/10/12 1:57pm

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,391 9936838

Ticket Number: 36838

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #: 4512 Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address): 508 West 24th Street 508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

RES SOIL

Classification of Material:

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs) 94200 lb
27760 lb
66440 lb

NET (Tons):
33.220 tn

Part 3 WEIGHT CETIFICATION Val Borba

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator	Date	Tare Time	Gross Time
	12/10/12	2:01 pm	2:01 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 4

Secondary Transporter Name, Address and Permit #:

AN370Z

Driver Name and Signature (Conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Stephanie Frank

Authorized By (title): Agent of Highline 508 W. 24th St. LLC

Authorized By (sig):

TIME: 1311 DATE: 12/10/12

Transporter:

TERRA EXP.

2

Driven By: WALTON

Truck/Trailer Plate: AN 3702

Driver Signature:

Material/Note(s):

X

Manifest Number: 78391

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66440 GROSS WEIGHT 94200

NET TONS 33.22 TARE WEIGHT 27760

TICKET NUMBER 36838

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Linden Park West Landfill Closure Site

3

Date/Time: 12/10/12 2:01pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. /
Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,390

Ticket Number: 36849
9936849

SCALE TICKET

GENERATOR

Part 1

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

MATERIAL CLASSIFICATION AND WEIGHT

Part 2

Classification of Material:
RESIDUE
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
103480 lb
27820 lb
75660 lb

NET (Tons):
37.830 tn

WEIGHT CETIFICATION

Part 3

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Ti
12/10/12	3:00 pm	3:02

Date and Time In and Out:

Scale Operator Notes:

TRANSPORTER DATA AND CERTIFICATION

Part 4

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
N388Z

Tk Plate Number:

By signing this ticket the transport vehicle driver accepts sol
and therefore assumes all liabilities for the gross weight of t
load of material scaled and accepted at Lincoln Park West
Construction Corp. and Impact Environmental Consulting,
acknowledges that he or she is solely responsible for comp
traffic safety rules and regulations for the operation and ma
vehicle when transporting to, driving in and leaving from th
West site. Further, the driver represents that he or she wil
report any incidents of overloading or vehicle equipment f
associated with the vehicle to the owner of the vehicle, ar
relieve Persistent Construction Corp. and Impact Environ
Consulting, Inc. to serve any form of notice to the truck o
Furthermore, driver accepts that he or she will abide by
procedures at Lincoln Park West and as directed by the

ORIGINAL

Transportation Charter / Manifest

Generator:

Corporate Owner: 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508W. 24th Street LLC
Authorized By (title)

Authorized By (sig)

Time 1410 Date 12/10/12

Transporter:

KK Group LLC

2

Driven By Jaime Pereira

Truck/Trailer Plate DN3687

Driver Signature

Material/Note(s):

[X]

Non Residential [ ]

Manifest Number 78390

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 75660 GROSS WEIGHT 103480
NET TONS 37.83 TARE WEIGHT 27820
TICKET NUMBER _____

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 12/10/12 3:02pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77.864

Ticket Number: 9936855 36855

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
93240 lb
27760 lb
65480 lb

NET (Tons):
32.740 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
12/10/12	3:30 pm	3:30 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA4
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

1436 12/10/12

Transporter:

TERRA EXP.

2

Driven By WALTON

Truck/Trailer Plate AN 3702

Driver Signature

Material/Note(s):

Manifest Number 77864

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65480 GROSS WEIGHT 93240

NET TONS 32.74 TARE WEIGHT 27760

TICKET NUMBER 366855

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 12/10/12 3:31pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

IMPACT ENVIRONMENTAL
Class B Recycling Facility

Manifest #:

Ticket #: 06159

1832 6159

welcome to solid ground....

1000 Page Avenue
Lyndhurst, New Jersey 07071
631-269-8800

Facility Registration #: 121888
Permit: CBG070002

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 W 24th St LLC
56 W 22nd St
New York NY 10010

Source of Material (Description and Address):
508 W 24th St
508 W 24th St
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
CLASSB Class B Material

NOTES: Thanks

WEIGHTS

GROSS/TARE/NET (lbs)	NET (tons):
85920 lb	
26420 lb	29.750 tn
59500 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above-named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program.

Where applicable, I hereby certify that the Transportation Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
12/10/12	11:56 am	11:58 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Truck Owner Name, Address and Permit #: TERRA

Driver Name and Signature (conditional):

Truck Plate: AN370Z

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Impact Environmental Class B Recycling Facility. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from Impact Environmental Class B Recycling Facility. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Impact Environmental, its owners, employees and/or all of its affiliated companies to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Impact Environmental Class B Recycling Facility and as directed by company staff.

ORIGINAL

IMPACT ENVIRONMENTAL
Class B Recycling Facility

Manifest #:

Ticket #: 06159

welcome to solid ground....

1000 Page Avenue
Lyndhurst, New Jersey 07071
631-269-8800

Facility Registration #: 121888
Permit: CBG070002

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 W 24th St LLC
56 W 22nd St
New York, NY 10010

Source of Material (Description and Address):
508 W 24th St
508 W 24th St
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
CLASSB Class B Material

NOTES: Thanks

WEIGHTS

GROSS/TARE/NET (lbs)
85920 lb
26420 lb
59500 lb

NET (tons):
29.750 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program.

Where applicable, I hereby certify that the Transportation Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
12/10/12	11:56 am	11:58 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Impact Environmental Class B Recycling Facility. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from Impact Environmental Class B Recycling Facility. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Impact Environmental, its owners, employees and/or all of its affiliated companies to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Impact Environmental Class B Recycling Facility and as directed by company staff.

DUPLICATE

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,396

Ticket Number: 9935811 35811

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4612
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
97920 lb
26060 lb
71860 lb

NET (Tons):
35.930 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
12/6/12	10:30 am	10:30 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

LUIS

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN269V

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] Highline 508 West 24th Street LLC
56 West [illegible] Street
New York NY 10011

Site 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St
Authorized By (title)

Authorized By (sig)

Time 0740 Date 12/6/12

Transporter:

Luisito
224 Garside St
Newark, NJ
07104

2

Driven By Daniel B

Truck/Trailer Plate 33 / AU269U

Driver Signature

Time Date

Material/Note(s):

[illegible]

Manifest Number 78396

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 71860 GROSS WEIGHT 97920
NET TONS 35.93 TARE WEIGHT 26060
TICKET NUMBER 35811

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dupont Avenue
Lincoln Park, NJ

3

Date/Time 12/6/12 10:30

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 35799

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

77,996 9935799

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

4612

NOTES: Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

WEIGHT

GROSS/TARE/NET (lbs)

508 West 24th Street
508 West 24th Street
New York NY

NET (Tons):

10010

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

NON REF SOIL

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

NON REF

Name of Scale Operator:

Date and Time In and Out:

95820 lb
28580 lb 33.420 tn
66840 lb

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

FEIJO

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St.
Authorized By (title)

Authorized By (sig)

07:30 12/6/12

Transporter:

C FELTO TRUCKING

2

Driven By JULIO

Truck/Trailer Plate AJ106H #78

Driver Signature

Material/Note(s):

Manifest Number 77996

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66800 GROSS WEIGHT 95870

NET TONS 33.40 TARE WEIGHT 28980

TICKET NUMBER 35799

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 12/6/12 10:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,398

Ticket Number: 35793

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
101220 lb
28600 lb
72620 lb

NET (Tons):
36.310 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date	Tare Time	Gross Time
12/6/12	9:45 am	9:49 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
AMBAR 1141

Driver Name and Signature (conditional):
ANTHO

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Highline 508 West 24th Street LLC
New York NY 10010

Site 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

Time: Date:

Transporter:

AMBERTA AKS LLC. 580 NAST NEWARK NJ

2

Driven By JA1020

Truck/Trailer Plate 1141 AN7150

Driver Signature

Time: Date:

Material/Note(s):

Site Location

Manifest Number 78398

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72620 GROSS WEIGHT 101220

NET TONS 36.31 TARE WEIGHT 28600

TICKET NUMBER 35793

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Hackensack Meadowlands KIL Closure Site
Dunnigan Avenue
Jersey City NJ

3

Date/Time 12/6/12 9:49

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,397

Ticket Number: 36139

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
Soil

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95660 lb	
27200 lb	34.230 tn
68460 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
12/8/12	10:44 am	10:47 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,995 36140

Ticket Number: 36140

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):
508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
Soil

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
91220 lb
28500 lb
62720 lb

NET (Tons):
31.360 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 12/6/12 Tare Time 10:50 am Gross Time 10:50 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St.
Authorized By (title)

Authorized By (sig)
0750 12/6/12

Transporter:

N. ZAPATA
55 GRACE St.
NJ

2

Driven By N. ZAPATA

Truck/Trailer Plate AL 477-A

Driver Signature NESTOR #22

Material/Note(s):

Manifest Number 77995

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 62720 GROSS WEIGHT 91220
NET TONS 31.36 TARE WEIGHT 28500
TICKET NUMBER 36140

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) JC

Receiving Facility:

3

Date/Time 12-6 10:51 AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23433

Hauler Name: DI TRK

Address: W. 24th St

City, Town or Borough: NY

Date: Wed 04/24/13

Driver: 03:08 pm Out

Commodity

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

Gross: 77980 lb Grossbs

Tare: 25.800 lbs

Net: 52.180 lbs

26.09 tn

Signature

AN 786K

Vehicle License No. Unit No.

SIGNATURE: SB DATE: 4/24/13

LICENSE NO.: 69751

Price Total

DI 02 117758

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Amanda Forsberg as Agent for Highline 508 W 24th St LLC

Authorized By (title) Langan Staff

Authorized By (sig) Amanda M Forsberg

TIME: 1200 DATE: 4/23/13

Transporter:
DI TRUCHING
110 JABEZ ST
NEWARK NJ
DI 402

2

Driven By RONIERI DESOUZA

Truck/Trailer Plate AN 7864

Driver Signature

TIME: 12:00PM DATE: 4/23/13

Manifest Number 117758

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 52180 GROSS WEIGHT 77980
NET TONS 26.09 TARE WEIGHT 25800
TICKET NUMBER 23433

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S D

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/24/13 3:08

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

W + IKR
Hauler Name

Ue 24th St
Address

New York
City, Town or Borough

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23384

Date Tue 04/23/13

Driver 11:06 In am Out

Commodity

Gross 98020 lb Gross lbs

Tare 25.200 lbs

Net 72.820 lbs

36.41 tn

Signature

AP. 191K

Vehicle License No. Unit No.

Price Total

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/23/13
DATE

69751
LICENSE NO.

DI'4

117759

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Amanda Forsburg as Agent For Highline 508W 24th St LLC

Authorized By (title) langan Staff

Authorized By (sig) Amanda M Forsburg

TIME: 9:05AM DATE: 4/23/13

Transporter:

DT TRK
NEWARK - NJ

2

Driven By T. WILSON

Truck/Trailer Plate AP 191 K #4

Driver Signature

TIME: 4-23-13 DATE:

Manifest Number 117759

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72820 GROSS WEIGHT 98020

NET TONS 36.41 TARE WEIGHT 25,200

TICKET NUMBER 23384

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/23/13 11:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23289

Date Thu 04/18/13

Driver 07:15 in am Out

Commodity

Gross 89560 lb Gross

Tare 26500 lbs

Net 63,060 lbs
31.53 tons

Signature

AL-347A
Vehicle License No. Unit No.

Price Total

C.V 56 117753

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE

4/18/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig): Lindsay Deckard

TIME: 1530 DATE: 17APR13

Transporter:

CV TRUCKING
#56

2

Driven By: MIKE

Truck/Trailer Plate: AL347A

Driver Signature:

TIME: 1530 DATE: 17APR13

Manifest Number: 117753

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63.06 GROSS WEIGHT 89.56

NET TONS 31.53 TARE WEIGHT 26.500

TICKET NUMBER 23289

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): J B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/18/13 7:15

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

C.V TRK
Hauler Name

W 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23290

Date Thu 04/18/13

Driver 09:55 AM Out

Commodity

Gross 89380 lb Grossbs

Tare 26300 lbs

Net 63,080 lbs

31.54 ton

Signature

AW 819V
Vehicle License No. Unit No.

Price Total

C.V 45 117754

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/18/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0730 DATE: 18 APR 13

Transporter:
CV TRUCKING
#45

2

Driven By SERGUEY LEANDRO

Truck/Trailer Plate AN319V #45

Driver Signature

TIME: 0730 DATE: 18 APR 13

Manifest Number 117754

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63080 GROSS WEIGHT 89380

NET TONS 31.54 TARE WEIGHT 26300

TICKET NUMBER 23290

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/18/13 9:55

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) SERGUEY L.

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23291

Date Thu 04/18/13
Driver 10:12 am Out

Commodity

Gross 90140 lb Gross

Tare 27,600 lbs

Net 62,540 lbs

31.27 ton

Signature

AN.317V
Vehicle License No. Unit No.

Price Total

C.V 0486 117755

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE 4/18/13 DATE

LICENSE NO. 69751

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 0755 DATE: 18APR13

Transporter:
CN TRUCKING
#0486

2

Driven By Luis A C

Truck/Trailer Plate AN317V

Driver Signature

TIME: 0755 DATE: 18APR13

Manifest Number 117755

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 62540 GROSS WEIGHT 90140
NET TONS 31.27 TARE WEIGHT 27.600
TICKET NUMBER 23291

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/18/13 10:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23293

Date Thu 04/18/13

Driver 02:56 PM Out

C.V TRK
Hauler Name

W 24th St
Address

NY
City, Town or Borough

Commodity

Gross 92940 lb Gross

Tare 26300 lbs

Net 66640 lbs

33.32 +

Signature

AN-819U
Vehicle License No. Unit No.

Price Total

C.V "45 117756

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/18/13
DATE

69251
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DEGRAED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGIAN STAFF

Authorized By (sig) Lindsay DeGrad

TIME: 1247 DATE: 18 APR 13

Transporter:

CV TRUCKING
#45

2

Driven By SERGUEY L.

Truck/Trailer Plate AD319V

Driver Signature

TIME: 1247 DATE: 18 APR 13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117756

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66646 GROSS WEIGHT 92940

NET TONS 33.3 TARE WEIGHT 26300

TICKET NUMBER 2329

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/18/13 2:50

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) SERGUEY L.

C.V. TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23294

Date Thu 04/18/13

Driver 03:16 pm Out

Commodity

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/18/13
DATE

69751
LICENSE NO.

Gross 90280 lb Grossbs

Tare 27,600 lbs

Net 62 680 lbs

Signature

AN-317N
Vehicle License No. Unit No.

Price Total

C.V "0486 117757

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 1314 DATE: 18APR13

Transporter:

CV TRUCKING
#0486

2

Driven By Luis A G

Truck/Trailer Plate AN317V

Driver Signature

TIME: 1314 DATE: 18APR13

Manifest Number 117757

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED 90280
NET WEIGHT 62680 GROSS WEIGHT [illegible]
NET TONS 31.34 TARE WEIGHT 27600
TICKET NUMBER 23294

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/18/13 3:16

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23265

Date Wed 04/17/13

Driver 09:28 AM In Out

Commodity

Gross 83480 lb Gross

Tare 27-600 lbs

Net 55.880 lbs

Plus C. 27.94 tons

Signature

AN 317V
Vehicle License No. Unit No.

Price Total

C.V # 0486 Man 117744

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): Lindsay Deckard

TIME: 0722 DATE: 17APR13

Transporter:
CV TRUCKING
#0486

2

Driven By: Luis A C

Truck/Trailer Plate: AN317V

Driver Signature: L. C

TIME: 0722 DATE: 17APR13

Manifest Number: 117744

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 55880 GROSS WEIGHT 83480
NET TONS 27.94 TARE WEIGHT 27600
TICKET NUMBER 23265

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD,
NORTHAMPTON, PA 18067

3

Date/Time: 4/17/13 9:28

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): L. C

C. V TRK
Hauler Name
(w) 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23266

Date Wed 04/17/13
Driver 09:35 In am Out

*** PLEASE READ CAREFULLY ***

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B — SIGNATURE
4/17/13 — DATE
69751 — LICENSE NO.

Commodity
Gross 77540 lb Gross lbs
Tare 26300 lbs
Net 51.240 lbs
25.62 t
Signature
AN · 392P
Vehicle License No. Unit No.

Price Total
C. V 99 117745

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 0737 DATE: 17APR13

Transporter:
#99
CV TRUCKING

2

Driven By Eric W. Fuentes

Truck/Trailer Plate AN392P

Driver Signature [signature]

TIME: 0737 DATE: 17APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117745

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 51240 GROSS WEIGHT 77540
NET TONS 25.62 TARE WEIGHT 26300
TICKET NUMBER 233264

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13 9:35

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

C.V TRK
Hauler Name

W. 24 St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23270

Date Wed 04/17/13

Driver 10:02 am In Out

Commodity

Gross 85600 lb Gross lbs

Tare 26500 lbs

Net 59.100 lbs

29.55 ton

Signature

AN.318V
Vehicle License No. Unit No.

Price Total

C.V 25 117246

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/17/13
DATE

G925T
LICENSE NO.

Transportation Chain / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Declard

TIME: 0800 DATE: 17APR13

Transporter:
CV
#25

2

Driven By JORGE

Truck/Trailer Plate AN318V

Driver Signature

TIME: 0800 DATE: 17APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117746

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 59100 GROSS WEIGHT 85600
NET TONS 29.55 TARE WEIGHT 26500
TICKET NUMBER 232270

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13 1002

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23274

Date Wed 04/17/13

Driver 11:52 am Out

Commodity

Gross 74140 lb Gross lbs

Tare 25280 lbs

Net 48.860 lbs

24.43 ton

Signature

AN.316V

Vehicle License No. Unit No.

Price Total

C.V 0170 117747

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST, IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 0921 DATE: 17APR13

Transporter:

CV TRUCKING
0170

2

Driven By Tom Michell

Truck/Trailer Plate AN316V

Driver Signature

TIME: 0921 DATE: 17APR13

Manifest Number 117747

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 48866 GROSS WEIGHT 74140

NET TONS 24.43 TARE WEIGHT 25280

TICKET NUMBER 23274

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13 11:52

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C. V TRK
Hauler Name
W. 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23275

Date Wed 04/17/13
Driver 12:32 In PM Out

Commodity

Gross 72820 lb Gross lbs

Tare 26500 lbs

Net 46320 lbs

23.16 tons

Signature

AL -347A
Vehicle License No. Unit No.

Price Total

C.V 56 117748

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 1036 DATE: 17APR13

Transporter:

CV TRUCKING #56

2

Driven By MIKE C

Truck/Trailer Plate AL347A

Driver Signature

TIME: 1036 DATE: 17APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117748

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 46320 GROSS WEIGHT 72820

NET TONS 2316 TARE WEIGHT 26500

TICKET NUMBER 23275

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13 12:32

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C V TRK
Hauler Name

W. 24th St
Address

N Y
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23278

Date Wed 04/17/13

Driver _____ In 02:10 PM _____ Out

Commodity

Gross 87280 lb Gross lbs

Tare 27.600 lbs

Net 59.680 lbs

29.84 tons

Signature

AN.317V
Vehicle License No. Unit No.

Price Total

C.V 0486 117749

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAND STAFF

Authorized By (sig): [signature]

TIME: 1210 DATE: 17APR13

Transporter:

CV TRUCKING
#0486

2

Driven By: [signature]

Truck/Trailer Plate: AN317V

Driver Signature: [signature]

TIME: 1210 DATE: 17APR13

Manifest Number: 117749

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 59680 GROSS WEIGHT 87280

NET TONS 2984 TARE WEIGHT 27600

TICKET NUMBER 23278

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/17/13 2:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

Hauler Name
W. 24th St
Address
NY
City, Town or Borough

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 20217

Date Wed 04/17/13
Driver 02:12 PM In Out

Commodity

Gross 88640 lb Gross lbs

Tare 26300 lbs

Net 62.340 lbs

Signature

AN.392P
Vehicle License No. Unit No.

Price Total

C.V'99 117750

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/17/13
DATE

G9751
LICENSE NO.

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 1219 DATE: 17APR13

Transporter:

CV TRUCKING #99

2

Driven By ERIC N. FUENTES

Truck/Trailer Plate AN3929

Driver Signature [signature]

TIME: 1219 DATE: 17APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117750

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62340 GROSS WEIGHT 88640

NET TONS 31.17 TARE WEIGHT 26300

TICKET NUMBER 23279

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

C.V TRK
Hauler Name
W. 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23280

Date Wed 04/17/13
Driver 02:30 In PM Out

*** PLEASE READ CAREFULLY ***

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S B
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Commodity

Gross 92300 lb Gross lbs

Tare 26500 lbs

Net 65.800 lbs

32.90 ton

Signature

AN-318V
Vehicle License No. Unit No.

Price Total

C.V 25 117751

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): Lindsay [illegible]

TIME: 1234 DATE: 17APR13

Transporter:

CV TRUCKING
#26

2

Driven By: Jorge

Truck/Trailer Plate: AN318 V

Driver Signature: [illegible]

TIME: 1234 DATE: 17APR13

Manifest Number: 117751

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65800 GROSS WEIGHT 92300

NET TONS 3290 TARE WEIGHT 26500

TICKET NUMBER 232580

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

6

Date/Time: 4/17/13 2:30

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [illegible]

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23287

Date Wed 04/17/13

Driver 04:33 pm Out

Commodity

Gross 74940 lb Gross lbs

Tare 25.280 lbs

Net 49.660 lbs

24.83 ton

Signature

AN. 316V

Vehicle License No. Unit No.

Price Total

CV.0170 117752

*** PLEASE READ CAREFULLY ***

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S.B
SIGNATURE

4/17/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 1425 DATE: 17APR13

Transporter:
CV TRUCKING
#0170

2

Driven By TOM Micheff

Truck/Trailer Plate AN316V

Driver Signature

TIME: 1425 DATE: 17APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117752

IMPACT

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 49660 GROSS WEIGHT 74940
NET TONS 2483 TARE WEIGHT 25280
TICKET NUMBER 23287

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/17/13 4:33

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

C.V. Trucking
Hauler Name

W. 24th St
Address

N Y
City, Town or Borough

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23241

Date Tue 04/16/13

Driver 09:21 In AM Out

Commodity

Gross 95700 lb Gross lbs

Tare 26300 lbs

Net 69.400 lbs

34.70 ton

Signature

Arbor 392P
Vehicle License No. Unit No.

Price Total

*** PLEASE READ CAREFULLY ***

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

C.V. 99

Mar 117729

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Jessica Friscia

Authorized By (title) agent for Highline 508 w 24th Street LLC

Authorized By (sig)

TIME: 0700 DATE: 4/16/13

Transporter:

C.N TRK

2

Driven By Eric N. Fuentes

Truck/Trailer Plate AN 392P

Driver Signature

TIME: DATE:

Manifest Number 117729

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 19400 GROSS WEIGHT 45700

NET TONS 34.70 TARE WEIGHT 26300

TICKET NUMBER 23241

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 9:21

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23242

Date Tue 04/16/13

Driver 09:38 am In _____ Out

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

Commodity

Gross 85400 lb Gross lbs

Tare 26300 lbs

Net 59.100 lbs

29.55 ton

Signature

AN.319V
Vehicle License No. Unit No.

Price Total

C.V 45 117730

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Jessica Friscia

Authorized By (title) agent of Highline 508 West 24th Street LLC

Authorized By (sig)

TIME: 0730 DATE: 4/16/13

Transporter:

2

Driven By Sergey L.

Truck/Trailer Plate #45-AN3191

Driver Signature

TIME: 7:45 DATE: 4-16-13

Manifest Number 117730

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED 85400

NET WEIGHT 59100 GROSS WEIGHT 85400

NET TONS 29.55 TARE WEIGHT 26300

TICKET NUMBER 23242

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 9:38

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Sergey L.

T-mak TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23243

Date Tue 04/16/13

Driver 09:57 In am Out

Commodity

Gross 90140 lb Gross lbs

Tare 27.600 lbs

Net 62.540 lbs

31.27 ton

Signature

Vehicle License No. Am-295T Unit No.

Price Total

T-mak #2 117731

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent for Highline 508 West 24th street LLC
Authorized By (title)

Authorized By (sig)

TIME: 4/16/13 DATE: 8745

Transporter:

T mak TRUCKING

2

Julio C Barcelos
Driven By T-MAK SERVICE INC

Truck/Trailer Plate AM 295T

Driver Signature

TIME: DATE:

Manifest Number 117731

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62340 GROSS WEIGHT 90140

NET TONS 31.17 TARE WEIGHT 27800

TICKET NUMBER 23243

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 9:55

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.V TRK
Hauler Name

60.24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23244

Date Tue 04/16/13

Driver 10:06 In am Out

Commodity

Gross 91660 lb Gross lbs

Tare 26500 lbs

Net 65.160 lbs

32.58 ton

Signature

AN 3188

Vehicle License No. Unit No.

Price Total

C.V 25 117732

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Jessica Friscia

Authorized By (title): agent of Highline 508 West 24th Street LLC

Authorized By (sig): [signature]

TIME: 4/16/13 DATE: 0755

Transporter:

C.V TRK

2

Driven By: Jorge

Truck/Trailer Plate: AN318V

Driver Signature: [signature]

TIME: _____ DATE: _____

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number: 117732

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 6516 GROSS WEIGHT 91660

NET TONS 3258 TARE WEIGHT 26500

TICKET NUMBER 232444

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/16/13 10:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

L V Trck
Hauler Name

Lw. 24th St
Address

NY
City, Town or Borough

TOTAL RECYCLING RESOURCES
P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23247

Date Tue 04/16/13
Driver 10:34 In am Out

Commodity

Gross 85100 lb Gross lbs

Tare 25,280 lbs

Net 59,820 lbs
29.91 tn

Signature

AN-316V
Vehicle License No. Unit No.

Price Total

C.V. 0170 117733

*** PLEASE READ CAREFULLY ***

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S B
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 4/16/13 DATE: 0810

Transporter:

C.V. TKK

2

Driven By Tom Micheff.

Truck/Trailer Plate 0170 - AN316

Driver Signature

TIME: _____ DATE: _____

Manifest Number 117733

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 5982 GROSS WEIGHT 85100

NET TONS 2991 TARE WEIGHT 25280

TICKET NUMBER 23240

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 10:34

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

T-Mak
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23248

Date Tue 04/16/13

Driver 10:37 am In _____ Out

Commodity

Gross 90440 lb Gross lbs

Tare 27.200 lbs

Net 63.240 lbs

31.62 &

Signature

AP. 964K
Vehicle License No. Unit No.

Price Total

Tmak 3 117735

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 4/16/13 DATE: 0840

Transporter: AMV T-MAK

2

Driven By PEDRO TEIXEIRA

Truck/Trailer Plate T-MAK #03 AP964K

Driver Signature

TIME: 8:45 DATE: 4/16/13

Manifest Number 117735

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY,

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63240 GROSS WEIGHT 90440

NET TONS 31.62 TARE WEIGHT 27.200

TICKET NUMBER 23248

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 10:37

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Driven By (sig)

C.V. TRK
Hauler Name
W. 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23249

Date Tue 04/16/13
Driver 10:40 In am Out

Commodity

Gross 84320 lb Gross lbs

Tare 26500 lbs

Net 57.820 lbs

28.91 ta

Signature

AK 347 A
Vehicle License No. Unit No.

Price Total

CV 86 117734

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 4/16/13 DATE: 0820

Transporter:

C.V TRUCK

2

Driven By Mike C

Truck/Trailer Plate CV56 A3MA

Driver Signature

TIME: DATE:

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117734

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 57820 GROSS WEIGHT 84320

NET TONS 28.91 TARE WEIGHT 26500

TICKET NUMBER 23249

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S D

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 10:40

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Driven By (sig)

C.V TRK
Hauler Name
W 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23252

Date Tue 04/16/13
Driver 12:44 In PM Out

Commodity

Gross 92240 lb Gross lbs

Tare 27600 lbs

Net 64-640 lbs

GW Cs 32-32 sm

Signature

Am 317V
Vehicle License No. Unit No.

Price Total

C-V 0486 117736

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1030 DATE: 4/16/13

Transporter:

C.V TRK

2

Driven By Luis A C.

Truck/Trailer Plate CV # 0486 AM-3170

Driver Signature

TIME: DATE:

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117736

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 64640 GROSS WEIGHT 92240
NET TONS 32.32 TARE WEIGHT 27600
TICKET NUMBER 23252

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 12:44

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Driven By (sig) Luis C

C.V TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23254

Date Tue 04/16/13

Driver 01:38 In PM Out

Commodity

Gross 90800 lb Gross lbs

Tare 26300 lbs

Net 64.500 lbs

32.25 to

Signature

AN.392P

Vehicle License No. Unit No.

Price Total

CV'99 117737

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE 4/16/13 DATE

LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 west 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1150 DATE: 4/16/13

Transporter:
CV TRUCK
182-Calvin St, IN6

2

Driven By Eric N. Fuentes

Truck/Trailer Plate

Driver Signature

TIME: DATE:

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117737

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 64500 GROSS WEIGHT 90800
NET TONS 32.25 TARE WEIGHT 26300
TICKET NUMBER 23254

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 1:38

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.V TRK
Hauler Name

W 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23255

Date Tue 04/16/13

Driver _____ In 02:14 PM _____ Out

Commodity

Gross 87140 lb Gross lbs

Tare 26300 lbs

Net 60.840 lbs

30.42 tn

Signature

AN-314V
Vehicle License No. Unit No.

Price Total

C.V 45 117738

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Frisaia
Authorized By (print)

agent of Highline 508 West 24th street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1210 DATE: 4/16/13

Transporter:
C.V. TRK

2

Driven By Stanley L.

C.V.
Truck/Trailer Plate #45 AN3141

Driver Signature

TIME: 12:15 DATE: 4-16-13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117738

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 60840 GROSS WEIGHT 87140
NET TONS 30.42 TARE WEIGHT 26300
TICKET NUMBER 23255

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 2:14

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Stanley L.

Tmak

Hauler Name

W 24th St

Address

NY

City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23256

Date Tue 04/16/13

Driver 02:39 In PM Out

Commodity

Gross 99340 lb Gross lbs

Tare 27600 lbs

Net 71740 lbs
3587 tons

Signature

Am. 295T

Vehicle License No. Unit No.

Price Total

Tmak #2 117739

*** PLEASE READ CAREFULLY ***

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SIGNATURE

DATE 4/16/13

LICENSE NO. 09751

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th street
Authorized By (title)

Authorized By (sig)

TIME: 630 DATE: 4/16/13

Transporter:
T-MAK TRK

2

Julio C Barcelos
Driven By T-MAK Service inc

Truck/Trailer Plate AM 295T

Driver Signature

TIME: DATE:

Manifest Number 117739

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 71740 GROSS WEIGHT 99340
NET TONS 3587 TARE WEIGHT 27600
TICKET NUMBER 232556

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 2:37

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C. V. TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23258

Date Tue 04/16/13
Driver 02:52 In PM Out

Commodity

Gross 91420 lb Gross lbs

Tare 26500 lbs

Net 64,920 lbs

Signature

AN 318V
Vehicle License No. Unit No.

Price Total

C.V 25 11 7740

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1245 DATE: 4/16/13

Transporter:

2

Driven By Jorge

Truck/Trailer Plate AW318V

Driver Signature

TIME: DATE:

Manifest Number 117740

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 64920 GROSS WEIGHT 91420
NET TONS 32.46 TARE WEIGHT 26500
TICKET NUMBER 232258

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 2:52

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23259

Hauler Name: I Mak
Address: W 24th St
City, Town or Borough: NY

Date: Tue 04/16/13
Driver: 03:07 PM In ____ Out

Commodity

Gross: 95100 lb Gross lbs

Tare: 27.200 lbs

Net: 67.900 lbs

33.95 tec

Signature

Vehicle License No.: AP.964K
Unit No.

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE: S B
DATE: 4/16/13
LICENSE NO.: 69751

Price	Total
I Mak 3	117.41

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent of Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1300 DATE: 4/16/13

Transporter: AMV
T-MAK

2

Driven By Pedro Teixeira

T-MAK #03
Truck/Trailer Plate AP 964 K

Driver Signature Pedro Teixeira

TIME: 13:00 DATE: 4/16/13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 117741

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 67900 GROSS WEIGHT 95100
NET TONS 33.95 TARE WEIGHT 27200
TICKET NUMBER 23259

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 3:07

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Pedro Teixeira

SCALE TICKET

C.V TRK
Hauler Name

W 24th St
Address

NY
City, Town or Borough

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23260

Date Tue 04/16/13

Driver 04:02 In PM Out

Commodity

Gross 71940 lb Gross lbs

Tare 25.280 lbs

Net 46.660 lbs

23.33 ton

Signature

AN 316V
Vehicle License No. Unit No.

Price Total

C.V 0170 117742

* PLEASE READ CAREFULLY *

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SB
SIGNATURE

4/16/13
DATE

69751
LICENSE NO.

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): Jessica Friscia

Authorized By (title): agent of Highline 508 West 24th Street LLC

Authorized By (sig):

TIME: 1320 DATE: 4/16/13

Transporter:

C.V TRK

2

Driven By: Tom Michelli

Truck/Trailer Plate: 0170 - AN316V

Driver Signature:

TIME: _____ DATE: _____

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number: 117742

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 46660 GROSS WEIGHT 71940

NET TONS 2333 TARE WEIGHT 25280

TICKET NUMBER 23260

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/16/13 4:02

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Driven By (sig)

C.N. TRK
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23261

Date Tue 04/16/13

Driver 04:06 PM In _____ Out

Commodity

Gross 83340 lb Gross lbs

Tare 26 500 lbs

Net 56.840 lbs

28.42 tons

Signature

AK-347A
Vehicle License No. Unit No.

Price Total

C.V. 86 117743

*** PLEASE READ CAREFULLY ***

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S.B. 4/16/13
SIGNATURE DATE

69751
LICENSE NO.

Transportation Ticket / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Jessica Friscia
Authorized By (print)

agent for Highline 508 West 24th Street LLC
Authorized By (title)

Authorized By (sig)

TIME: 1400 DATE: 4/16/13

Transporter:

2

Driven By Milly C

Truck/Trailer Plate CU56 AL347A

Driver Signature

TIME: DATE:

Manifest Number 117743

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 5840 GROSS WEIGHT 83340
NET TONS 28.42 TARE WEIGHT 26500
TICKET NUMBER 23261

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/16/13 4:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

Manolas
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23201

Date Thu 04/11/13

Driver _____ In 03:35 PM Out _____

Commodity

Gross 96820 lb Gross lbs

Tare 26200 lbs

Net 70620 lbs

35.31 ton

Signature

AP-414M

Vehicle License No. Unit No.

Price Total

Manolas #3 116672

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 1335 DATE: ~~4/10/13~~ 11 APR 13

Transporter:

#05
MANOLO

2

Driven By Manuel Rodriguez

Truck/Trailer Plate AP414M

Driver Signature

TIME: 1335 DATE: 11 APR 13

Manifest Number 116672

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 70620 GROSS WEIGHT 96820
NET TONS 35.3 TARE WEIGHT 26200
TICKET NUMBER 23201

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 3:35

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

F. Y. munoz
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23194

Date Thu 04/11/13

Driver 02:43 In PM Out

Commodity

Gross 89720 lb Gross lbs

Tare 26 500 lbs

Net 63.220 lbs

31.61 tons

Signature

AK-9726

Vehicle License No. Unit No.

Price Total

F.Y. munoz 20 116663

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE 4/11/13 DATE

69351
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Declard

TIME: 1240 DATE: 11APR13

Transporter:

#20
MUNOZ

2

Driven By MILTON QUINTEROS

Truck/Trailer Plate AY972W

Driver Signature J Milton Q

TIME: 1240 DATE: 11APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116663

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63220 GROSS WEIGHT 89720

NET TONS 31.60 TARE WEIGHT 26500

TICKET NUMBER 23194

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 2:43

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) J Milton Q

C. F. Bros
Hauler Name

W 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23195

Date Thu 04/11/13

Driver 02:56 In FM Out

Commodity

Gross 92360 lb Gross lbs

Tare ~~26000~~ 26500 lbs

Net 65860 ~~66060~~ - 66060 lbs

Duo Mottum 33.18 tons 32.93 tons

Signature 33.18

~~AL-3126~~ AL-312C

Vehicle License No. Unit No.

Price Total

C.F. 10 116664

*** PLEASE READ CAREFULLY ***

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE

4/11/13
DATE

69051
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig) [signature]

TIME: 1249 DATE: 11APR13

Transporter:
#10
CF BROS.

2

Driven By [signature]

Truck/Trailer Plate AL312C

Driver Signature [signature]

TIME: 1249 DATE: 11APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116664

IMPACT

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 66000 GROSS WEIGHT 92360
NET TONS 3303 TARE WEIGHT 26500
TICKET NUMBER 23195

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 2:56

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

C.F. Bros
Hauler Name

(2) 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23196

Date Thu 04/11/13

Driver 02:59 PM In _____ Out

Commodity

Gross 89420 lb Gross lbs

Tare 26.000 lbs

Net 63.420 -63.420 lbs
31.71 ton

Signature

Vehicle License No. Unit No.

Price Total

C.F. 9 11667

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/11/13
DATE

69251
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 1300 DATE: 11 APR 13

Transporter:

#09
CF BROS

2

Driven By

Truck/Trailer Plate AN65LY

Driver Signature

TIME: 1300 DATE: 11 APR 13

Manifest Number 116667

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63420 GROSS WEIGHT 89420

NET TONS 31.71 TARE WEIGHT 26000 - 26000

TICKET NUMBER 23196

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 2:55

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23197

Hauler Name: J C Trans

Address: W. 24th St

City, Town or Borough: NY

Date: Thu 04/11/13

Driver: 03:11 In PM Out

Commodity

Gross: 93660 lb Gross lbs

Tare: 27.000 lbs

Net: 66.660 lbs

33.33 tons

Signature

Vehicle License No.: AP.153M

Unit No.

Price

Total

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE: S B

DATE: 4/11/13

LICENSE NO.: 69251

JC #9

116665

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECHARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1310 DATE: 11 APR 13

Transporter:
JC TRANSPORT
#09

2

Driven By Leo Sepulveda

Truck/Trailer Plate AP153H

Driver Signature

TIME: 1310 DATE: 11 APR 13

Manifest Number 116665

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 6666 GROSS WEIGHT 93660
NET TONS 3333 TARE WEIGHT 27.000
TICKET NUMBER 23197

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 3:11

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

Manolas
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23198

Date Thu 04/11/13

Driver 03:23 In PM Out

Commodity

Gross 95960 lb Gross lbs

Tare 26000 lbs

Net 69960 lbs

34.98 tn

Signature

AN 983L
Vehicle License No.

Unit No.

Price

Total

Manolas #4 116666

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SB
SIGNATURE

4/11/13
DATE

69251
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGIAN STAFF

Authorized By (sig)

TIME: 1323 DATE: 11 APR 13

Transporter:
#4
MANOLO

2

Driven By GONZALO FLORES

Truck/Trailer Plate AN983L

Driver Signature

TIME: 1323 DATE: 11 APR 13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116666

IMPACT

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69960 GROSS WEIGHT 95.960

NET TONS 34.98 TARE WEIGHT 26000

TICKET NUMBER 23198

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

4

Date/Time 4/11/13 3:23

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

JC Trans
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23192

Date Thu 04/11/13

Driver 02:12 In PM Out

Commodity

Gross 94820 lb Gross

Tare 30,000 lbs

Net 64,820 lbs

32.41 tn

Signature

AP 124L

Vehicle License No. Unit No.

Price Total

JC 610 116661

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGANO STAFF

Authorized By (sig): [signature]

TIME: 1213 DATE: ~~1213~~ 11APR13

Transporter:

JC TRANSPORT
#10

2

Driven By: WILLIAM GARCIA.

Truck/Trailer Plate: AP124L

Driver Signature: [signature]

TIME: 1213 DATE: 11APR13

Manifest Number: 116661

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 64520 GROSS WEIGHT 94820

NET TONS 32.4 / TARE WEIGHT 30000

TICKET NUMBER 23190

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/11/13 2:12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

IDROVO TRK
Hauler Name

6w 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23193

Date Thu 04/11/13

Driver 02:37 PM In _____ Out

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

Commodity

Gross 93120 lb Gross lbs

Tare 26200 lbs

Net 66920 lbs

33.46 tons

Signature

AP-533B
Vehicle License No. Unit No.

SB
SIGNATURE

4/11/13
DATE

69251
LICENSE NO.

Price Total

IDROVO "2 116662

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

LINDSAY DECLARD IS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (print)

LANGAN STAFF

Authorized By (title)

Authorized By (sig)

TIME: 1224 DATE: 11 APR 13

Transporter:
#2
IDROVO

2

Driven By Joyce Salazar

Truck/Trailer Plate AP533B

Driver Signature

TIME: 1224 DATE: 11 APR 13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116662

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66920 GROSS WEIGHT 93120

NET TONS 334.6 TARE WEIGHT 26200

TICKET NUMBER 23193

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 2:37

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23189

Manolas
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

Date Thu 04/11/13

Driver 10:31 am In _____ Out

Commodity

Gross 88160 lb Gross lbs

Tare 26200 lbs

Net 61960 lbs

30.98 ton

Signature

AP: 414m
Vehicle License No. Unit No.

Price Total

Manolas #3 116658

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 0830 DATE: 11APR13

Transporter:

MANDLO
05

2

Driven By MANUEL PASTUSZAK

Truck/Trailer Plate AP41UM

Driver Signature [signature]

TIME: 0830 DATE: 11APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116658

IMPACT

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62960 GROSS WEIGHT 88160

NET TONS 30.98 TARE WEIGHT 26.200

TICKET NUMBER 23189

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 10:31

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material thats being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

C. F. Bros
Hauler Name

Lw. 24th st
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23184

Date Thu 04/11/13

Driver 10:04 am In _____ Out

Commodity

Gross 91100 lb Gross lbs

Tare 26500 lbs

Net 64.600 lbs

Thu 32.30 tn

Signature

AL. 312C
Vehicle License No. Unit No.

Price Total

C. F. 10 116656

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material sealed at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

Notwithstanding any other warranty or limitation of warranty herein, Hauler warrants that to the best of their knowledge, the commodity to be delivered to this facility, under this contract of sale, does not contain any "hazardous substance" as defined by PA DEP or US EPA. Hauler will indemnify and hold TRC, its lessor and principals (TRC, et al) harmless from all claims, demands and liabilities, including reasonable attorney's fees resulting in whole or in part from a breach on the foregoing warrant. I, the undersigned, do also represent that I am, or am acting on behalf of, the owner of these materials and have the right to deliver them, and that no person or firm has any interest in said materials."

TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

LINDSAY DECLARES AS AGENT FOR
Authorized By (print) 508 W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig) [signature]

TIME: 0749 DATE: 11 APR 13

Transporter:

#10
CF

2

Driven By [signature]

Truck/Trailer Plate AL312C

Driver Signature [signature]

TIME: DATE: 11 APR 13

Manifest Number 116656

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 64600 GROSS WEIGHT 91100
NET TONS 3230 TARE WEIGHT 26500
TICKET NUMBER 23184

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 10:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

J.C. Trans
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23185

Date Thu 04/11/13

Driver 10:06 am In Out

Commodity

Gross 89300 lb Gross lbs

Tare 27.000 lbs

Net 62.300 lbs

31.15 ton

Signature

AP-153m
Vehicle License No. Unit No.

Price Total

J.C. 9 116657

* PLEASE READ CAREFULLY *

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material sealed at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S.B.
SIGNATURE

4/11/13
DATE

69251
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

LINDSAY DECLARD AS AGENT FOR
Authorized By (print) 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0757 DATE: 11APR13

Transporter:

#89
JC

2

Driven By Leo

Truck/Trailer Plate AP153H

Driver Signature

TIME: DATE:

Manifest Number 116657

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62300 GROSS WEIGHT 89300

NET TONS 31.15 TARE WEIGHT 27000

TICKET NUMBER 23185

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 10:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23186

Hauler Name: Manolas TRK

Address: W. 24th St

City, Town or Borough: NY

Date: Thu 04/11/13

Driver: 10:13 am In ____ Out

Commodity

Gross: 88460 lb Gross lbs

Tare: 26000 lbs

Net: 62.460 lbs

31.23 tons

Signature

Vehicle License No.: AN 983L

Unit No.

Price

Total

Manolas 4

116660

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC", Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE: S.B

DATE: 4/11/13

LICENSE NO.: 69051

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DELICATO AS AGENT FOR 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0808 DATE: 11APR13

Transporter:
#04
MANOLOS

2

Driven By GONZALO F.

Truck/Trailer Plate AN983L

Driver Signature

TIME: 0808 DATE: 11APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116660

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62466 GROSS WEIGHT 88460

NET TONS 3123 TARE WEIGHT 26000

TICKET NUMBER 23186

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/1/13 10:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

C.F. Bros
Hauler Name

Les. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23187

Date Thu 04/11/13

Driver 10:14 am In _____ Out

Commodity

Gross 86400 lb Gross lbs

Tare 26000 lbs

Net 60400 lbs

30.20 tons

Signature

AW-6564
Vehicle License No. Unit No.

Price Total

C.F. #9

116659

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material sealed at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

S B
SIGNATURE

4/11/13
DATE

609751
LICENSE NO

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

LINDSAY DECLARD AS AGENT FOR
Authorized By (print) 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 0823 DATE: 11APR13

Transporter:

CF
#09

2

Driven By Vinny

Truck/Trailer Plate AN656Y

Driver Signature [signature]

TIME: 0823 DATE: 11APR13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116659

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60400 GROSS WEIGHT 86400

NET TONS 3020 TARE WEIGHT 26000

TICKET NUMBER 23187

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 10:16

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

F.Y munoz
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23181

Date Thu 04/11/13

Driver 09:47 In am Out

Commodity

Gross 87280 lb Gross lbs

Tare 26500 lbs

Net 60780 lbs

Amiton b 30.39 tons
Signature

AK-9726
Vehicle License No. Unit No.

Price Total

F.Y munoz 20 116655

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig) Lindsay Declard

TIME: 0730 DATE: 11APR13

Transporter:

#20
F & Y HAULING

2

Driven By MILTON QUINTERO

Truck/Trailer Plate AK972W

Driver Signature Milton Q.

TIME: DATE: 04-11-13

Manifest Number 116655

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60760 GROSS WEIGHT 87280

NET TONS 30.39 TARE WEIGHT 26500

TICKET NUMBER 23181

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/11/13 9:47

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Milton Q

JC Trans
Hauler Name
W. 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23178

Date Thu 04/11/13

Driver 09:26 In am Out

Commodity

Gross 92180 lb Gross lbs

Tare 30.000 lbs

Net 62.180 lbs

31.09 tons

Signature

AP 1241

Vehicle License No. Unit No.

Price Total

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/11/13
DATE

69751
LICENSE NO.

J.C #10

116654

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY BELLAVIA AS AGENT FOR 508 W 24TH ST LLC

Authorized By (title): LANDLAND STAFF

Authorized By (sig): [signature]

TIME: 0724 DATE: 11 APR 13

Transporter:

JC TRANSPORT #10

2

Driven By: WILLIAM GARCIA

Truck/Trailer Plate: AP124L

Driver Signature: [signature]

TIME: DATE: 4-11-13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number: 116654

IMPACT

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62180 GROSS WEIGHT 92180

NET TONS 31.09 TARE WEIGHT 30000

TICKET NUMBER 23178

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): S D

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time: 4/11/13 9:26

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

I Drayo Trk
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23179

Date Thu 04/11/13

Driver 09:33 In am Out

Commodity

Gross 85300 lb Gross lbs

Tare 26200 lbs

Net 59100 lbs
29.55 ton

Signature

Ap 533B
Vehicle License No. Unit No.

Price Total

I Drayo #2 116653

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/11/13
DATE

69251
LICENSE NO.

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DEKKARD AS AGENT FOR 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 0726 DATE: 11 APR 13

Transporter:

IDrovo Trucking #2

2

Driven By Jorge Salazar

Truck/Trailer Plate AP53313

Driver Signature

TIME: _____ DATE: _____

Manifest Number 116653

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 59100 GROSS WEIGHT 85300

NET TONS 29.55 TARE WEIGHT 26200

TICKET NUMBER 23179

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8800

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 04/11/13 9:33

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23152

Hauler Name: IDrovo TRK

Address: W. 24th St

City, Town or Borough: NY

Date: Tue 04/09/13

Driver: 09:26 am Out

Commodity

Gross: 94440 lb Gross lbs

Tare: 26200 lbs

Net: 68240 lbs

34.12

Signature

Vehicle License No.: AP 533B

Unit No.

Price

Total

IDrovo #2 116654

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/9/13
DATE

69751
LICENSE NO.

Transportation Shipper's Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christ B Madsen

TIME: 0710 DATE: 4/8/13

Transporter:
IDrovo Trucking

2

Driven By Jorge Salazar

Truck/Trailer Plate AP533B

Driver Signature

TIME: DATE:

Manifest Number 116674

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 68240 GROSS WEIGHT 94440
NET TONS 34.12 TARE WEIGHT 26200
TICKET NUMBER 23152

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 9:26

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

JC Trans
Hauler Name
W. 24th St
Address
NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES
P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23153

Date TUE 04/09/13
Driver 10:05 am Out

Commodity

Gross 96800 lb Gross

Tare 30.000 lbs

Net 66800 lbs

33.40 tons

Signature

AP-124L
Vehicle License No. Unit No.

Price Total

JC 10 116676

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material sealed at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/9/13
DATE

69751
LICENSE NO.

Transportation Ticket / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 0722 DATE: 4/9/13

Transporter:
JC Transport
#10

2

Driven By William Garcia.

Truck/Trailer Plate AP 124 L

Driver Signature

TIME: DATE: 4-9-13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116676

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 66800 GROSS WEIGHT 96800
NET TONS 3340 TARE WEIGHT 30000
TICKET NUMBER 23153

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 10:05

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23154

Date Tue 04/09/13

Driver 10:10 In AM Out

Hauler Name: JC Trans

Address: W. 24th St

City, Town or Borough: NY

Commodity

Gross 96500 lb Gross

Tare 27.000 lbs

Net 69500 lbs

34.75 ton

Signature

Vehicle License No. Ap·153m

Unit No.

Price

Total

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE

DATE 4/9/13

LICENSE NO. 69751

Jc'9 116675

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 8:30 DATE: 4/9/13

Transporter:

2

Driven By Leo Sepulveda

Truck/Trailer Plate AP153H #9

Driver Signature

TIME: DATE:

Manifest Number 116675

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69500 GROSS WEIGHT 96500

NET TONS 34.75 TARE WEIGHT 27000

TICKET NUMBER

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 10:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23160

Hauler Name: I Drove TRK

Address: W. 24th St

City, Town or Borough: NY

Date: Tue 04/09/13

Driver: 01:55h PM Out

Commodity

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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TRC et. al. will not be held responsible for damage or liability to vehicles which may occur during loading and unloading.

DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

Gross: 99140 lb Gross

Tare: 26,500 lbs

Net: 72.640 lbs

36.32 tons

Signature: SB

Date: 4/9/13

License No.: C9251

Vehicle License No.: AL 190P

Unit No.:

Price

Total

I Drove 61

116669

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Macken

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christ B Macken

TIME: 1140 DATE: 4/9/13

Transporter:
IDROVO TRUCKING
Hillside NJ

2

Driven By JESUS M.

Truck/Trailer Plate AL190P #07

Driver Signature

TIME: DATE: 4-9-13

Manifest Number 116669

IMPACT

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 72640 GROSS WEIGHT 99140
NET TONS 3632 TARE WEIGHT 26500
TICKET NUMBER 23160

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 9:58

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the method and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES
P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23161

Hauler Name: I Drovo Trk
Address: 24th St
City, Town or Borough: NY

Date: Tue 04/09/13
Driver: 01:56 In PM Out

Commodity

Gross: 92960 lb Gross

Tare: 26200 lbs

Net: 66760 lbs
33.38 Tons

Signature

Vehicle License No.: AP-533B
Unit No.

Price
Total

*** PLEASE READ CAREFULLY ***

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SIGNATURE: SB
DATE: 4/9/13
LICENSE NO.: 697251

I Drovo #2

116668

Transportation Station / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christie B Madsen

TIME: 1153 DATE: 4/9/13

Transporter:
Tobo Trucking

2

Driven By Jorge Salazar

Truck/Trailer Plate AP5331B

Driver Signature

TIME:_____ DATE:_____

Manifest Number 116668

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 66760 GROSS WEIGHT 92960
NET TONS 3338 TARE WEIGHT 26200
TICKET NUMBER 23161

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD,
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 1:56

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

JC TRans
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674

610-261-1700

No. 23162

Date Tue 04/09/13

Driver 02:16 In PM Out

Commodity

Gross 97400 lb Gross lbs

Tare 30,000 lbs

Net 67,400 lbs

33.70 tons

Signature

AP-1241

Vehicle License No. Unit No.

Price Total

JC #10 116670

*** PLEASE READ CAREFULLY ***

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material sealed at Total Recycling Resources ("TRC"). The driver acknowledges that he or she is solely responsible for compliance of all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and transporting from "TRC". Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment issues associated with the vehicle to the owner of the vehicle, and doing so will relieve TRC to serve any form of notice to the truck owner. Furthermore, driver is required to abide by all posted safety procedures at the TRC facility and as directed by TRC staff

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DUST WARNING: AVOID INHALATION OF DUST. IT CAN BE IRRITANT RESPIRATORY SYSTEM AND CAN ALSO IRRITATE EYES.

SB
SIGNATURE

4/9/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 1221 DATE: 4/9/13

Transporter:
JC TRANSPORT #10

2

Driven By WILLIAM GARCIA

Truck/Trailer Plate AP 124 L

Driver Signature

TIME: DATE: 4-9-13

Manifest Number 116670

IMPACT ENVIRONMENTAL

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67400 GROSS WEIGHT 97400

NET TONS 33.70 TARE WEIGHT 30000

TICKET NUMBER 23162

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 2:16

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

JC Trans
Hauler Name

W. 24th St
Address

NY
City, Town or Borough

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23164

Date Tue 04/09/13

Driver 02:41 In PM Out

Commodity

Gross 94120 lb Gross lbs

Tare 27.000 lbs

Net 67.120 lbs

33.56 ton

Signature

AP-153m
Vehicle License No. Unit No.

Price Total

J.C 9 116671

*** PLEASE READ CAREFULLY ***

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S B
SIGNATURE

4/9/13
DATE

69751
LICENSE NO.

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for Highline 508 W 24th LLC

Authorized By (sig) Christine B Madsen

TIME: 1235 DATE: 4/9/13

Transporter:

2

Driven By Leo Sepulveda

Truck/Trailer Plate AP153H

Driver Signature

TIME: _____ DATE: _____

Manifest Number 116671

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67120 GROSS WEIGHT 94120

NET TONS 33.56 TARE WEIGHT 27000

TICKET NUMBER 23164

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) SB

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 2:41

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

SCALE TICKET

TOTAL RECYCLING RESOURCES

P.O. Box 90674
ALLENTOWN PA 18109-0674
610-261-1700

No. 23151

Hauler Name: I-Drovo TRK

Address: W 24th St

City, Town or Borough: N Y

Date: Tue 04/09/13

Driver: 09:06 am Out

Commodity

Gross: 95160 lb Gross

Tare: 26500 lbs

Net: 68660 lbs
34.33 ton

Signature

Vehicle License No.: AL-190P

Unit No.

Price

Total

*** PLEASE READ CAREFULLY ***

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SB
SIGNATURE

4/9/13
DATE

69751
LICENSE NO.

I Drovo'i 116677

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline 508 W24th St LLC

Authorized By (sig) Christ B Madsen

TIME: 0700 DATE: 4/9/2013

Transporter:

JDROVO TRUCKING
Hillside NJ

2

Driven By JESUS M.

Truck/Trailer Plate AL190P #01

Driver Signature

TIME: DATE: 4.9.13

Material/Note(s):

MATERIAL COMPLIANT WITH PENNSYLVANIA MANAGEMENT OF FILL POLICY.

Manifest Number 116677

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 68660 GROSS WEIGHT 95160

NET TONS 34.33 TARE WEIGHT 26500

TICKET NUMBER 23151

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) S B

Receiving Facility:

TRC - ATLAS QUARRY
700 SAVAGE RD.
NORTHAMPTON, PA 18067

3

Date/Time 4/9/13 9:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the method and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,985

Ticket Number: 9933247 33247

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4612
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
98800 lb
29220 lb
69580 lb

NET (Tons):
34.790 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 11/8/12 Tare Time 10:14 am Gross Time 10:15 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ANDRA

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL/TOL

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St LLC
Authorized By (title)

Authorized By (sig)

Transporter:

2

Driven By Edwin Arcos

Truck/Trailer Plate AL 190P

Driver Signature

Material/Note(s):

Manifest Number 77986

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 76505 GROSS WEIGHT 104440

NET TONS _____ TARE WEIGHT 27920

TICKET NUMBER 33252

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 10:30 AM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,986

Ticket Number: 9933252 33252

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
104420 lb
27920 lb
76500 lb

NET (Tons):
38.250 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	10:30 am	10:30 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL190P

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th Street LLC
Authorized By (title)

Authorized By (sig)
1007 11/8/12

Transporter:

2

Driven By GONZALO FLORES

Truck/Trailer Plate AP 533B

Driver Signature
1004 11/8/12

Material/Note(s):

Manifest Number 77987

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 73740 GROSS WEIGHT 101640
NET TONS _____ TARE WEIGHT 27900
TICKET NUMBER 33265

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 11:12 AM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,987

Ticket Number: 9933265 33265

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
101640 lb
27900 lb
73740 lb

NET (Tons):
36.870 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out:	Tare Time	Gross Time
11/8/12	11:10 am	11:11 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
Tarovo 2

Driver Name and Signature (conditional):
AP0888

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)
1027 11/8/12

Transporter:

2

Driven By Luis Bustamante

Truck/Trailer Plate AN206Z

Driver Signature

Material/Note(s):

Manifest Number 77988

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 63500 GROSS WEIGHT 91960
NET TONS _____ TARE WEIGHT 28460
TICKET NUMBER 33273

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) RA

Receiving Facility:

3

Date/Time 11:36 AM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,988

Ticket Number: 9933273 33273

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4012
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
91980 lb
28460 lb
63520 lb

NET (Tons):
31.760 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 11/9/12 Tare Time 11:36 am Gross Time 11:36 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)

1054 11/8/12

Transporter:

ANDRADES #1

2

Driven By Wilson Bueo

Truck/Trailer Plate A17186

Driver Signature

Material/Note(s):

Manifest Number 77989

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66480 GROSS WEIGHT 95700

NET TONS _____ TARE WEIGHT 29220

TICKET NUMBER 33274

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 11:38 AM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,989

Ticket Number: 9933274 33274

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
95700 lb.
29220 lb
66480 lb

NET (Tons):
33.240 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	11:37 am	11:38 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL718E

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)
11/5 11/8/12

Transporter:

2

Driven By Edwin Salova

Truck/Trailer Plate AL190P

Driver Signature

Material/Note(s):

Manifest Number 77990

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 6146 GROSS WEIGHT 94060
NET TONS _____ TARE WEIGHT 27920
TICKET NUMBER 33280

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) RL

Receiving Facility:

8

Date/Time 11:58 AM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

1153 11/8/12

Transporter:

2

Driven By GONZALO FLORES

Truck/Trailer Plate AP533B

Driver Signature

Munoz

Material/Note(s):

Manifest Number 77981

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61440 GROSS WEIGHT 79340

NET TONS _____ TARE WEIGHT 27900

TICKET NUMBER 33295

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 12:35 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,991

Ticket Number: 9933295 33296

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
89340 lb
27900 lb
61440 lb

NET (Tons):
30.720 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

Date and Time In and Out: 11/8/12 Tare Time 12:34 pm Gross Time 12:35 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,992

Ticket Number: 9933299 33299

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4912
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
86620 lb
28460 lb
58160 lb

NET (Tons):
29.080 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	1:03 pm	1:04 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Lusito 869
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN2092

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th street LLC
Authorized By (title)

Authorized By (sig)

1213 11/8/12

Transporter:

Idrovo

2

Driven By Luis Bustamante

Truck/Trailer Plate AN 2062

Driver Signature

Material/Note(s):

Manifest Number 77992

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 5316 GROSS WEIGHT 36620

NET TONS _____ TARE WEIGHT 28460

TICKET NUMBER 33299

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1:04 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,862

Ticket Number: 9933305 33305

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
94800 lb
29220 lb
65580 lb

NET (Tons):
32.790 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/9/12	1:26 pm	1:26 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
Generator: Highline 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
Time 1233 Date 11/8/12

Transporter:

Munoz

2

Driven By Wilson Bed

Truck/Trailer Plate AL7198E

Driver Signature
Time Date 11/8/12

Material/Note(s):
Site Location
Residential [X]
Non Residential [ ]

Manifest Number 77862

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 65570 GROSS WEIGHT 94600
NET TONS _____ TARE WEIGHT 29030
TICKET NUMBER 33305

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1:26 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,863

Ticket Number: 33310

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
BFS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
95060 lb
27920 lb
67140 lb

NET (Tons):
33.570 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal, referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	1:38 pm	1:39 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL190P

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th [illegible]
50 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W. 24th St LLC
Authorized By (title)

Authorized By (sig)

Time 12:45 Date 11/8/12

Transporter:

2

Driven By Edwin Alvo

Truck/Trailer Plate AL190P

Driver Signature

Time Date

Material/Note(s):

Soil Excavation

Manifest Number 77863

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67140 GROSS WEIGHT 95060

NET TONS _____ TARE WEIGHT 27920

TICKET NUMBER 33310

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Hill Closure [illegible]
[illegible]

3

Date/Time 1:39 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,993

Ticket Number: 9933321 33321

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4012
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
98060 lb
27900 lb
70160 lb

NET (Tons):
35.080 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	2:07 pm	2:08 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of 508 W. 24th St. LLC
Authorized By (title)

Authorized By (sig)

1321 11/8/12

Transporter:

2

Driven By GONZALO FLORES

Truck/Trailer Plate AP533 B

Driver Signature

Munoz

Material/Note(s):

Manifest Number 77993

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70160 GROSS WEIGHT 98060

NET TONS _____ TARE WEIGHT 27900

TICKET NUMBER 33332

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 2:09 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,994

Ticket Number: 9933329 33329

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4012
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
87840 lb
28460 lb
59380 lb

NET (Tons):
29.690 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Ryan Adair

	Tare Time	Gross Time
11/8/12	2:30 pm	2:31 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Stephanie Frank
Authorized By (print)

Agent of Highline 508 W 24th St. LLC
Authorized By (title)

Authorized By (sig)
1341 11/8/12

Transporter:

Idrovo

2

Driven By Luis Bustamante

Truck/Trailer Plate AN2062

Driver Signature

Material/Note(s):

Manifest Number 77994

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 5938 GROSS WEIGHT 8740

NET TONS _____ TARE WEIGHT 2846

TICKET NUMBER 33329

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) BI

Receiving Facility:

3

Date/Time 2:31 PM 11/8/12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

IMPACT ENVIRONMENTAL
Class B Recycling Facility

1000 Page Avenue
Lyndhurst, New Jersey 07071
631-269-8800

Manifest #:

Ticket #: 05859

0 5859

welcome to solid ground....

Facility Registration #: 121888
Permit: CBG070002

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 W 24th St LLC
56 W 22nd St
New York, NY 10010

Source of Material (Description and Address):
508 W 24th St
508 W 24th St
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
CLASSB Class B Material

NOTES: Thanks

WEIGHTS

GROSS/TARE/NET (lbs)	NET (tons):
68460 lb	
27900 lb	20.280 tn
40560 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program.

Where applicable, I hereby certify that the Transportation Security Seal referenced in the Scale Operator Notes section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

	Tare Time	Gross Time
Date and Time In and Out: 1/18/12	8:52 am	8:52 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Transporter Name, Address and Permit #:
MUNOZ

Driver Name and Signature (conditional):
Wilson

Truck Plate:
AL718E

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Impact Environmental Class B Recycling Facility. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from Impact Environmental Class B Recycling Facility. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Impact Environmental, its owners, employees and/or all of its affiliated companies to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Impact Environmental Class B Recycling Facility and as directed by company staff.

ORIGINAL

IMPACT ENVIRONMENTAL
Class B Recycling Facility

1000 Page Avenue
Lyndhurst, New Jersey 07071
631-269-8800

Manifest #:

Ticket #: 05860

welcome to solid ground....

Facility Registration #: 121888
Permit: CBG070002

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 W 24th St LLC
56 W 22nd St
New York, NY 10010

Source of Material (Description and Address):
508 W 24th St
508 W 24th St
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
CLASSB Class B Material

NOTES: Thanks

WEIGHTS

GROSS/TARE/NET (lbs)	NET (tons):
66400 lb	
27900 lb	19.250 tn
38500 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program.

Where applicable, I hereby certify that the Transportation Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out	Tare Time	Gross Time
11/8/12	8:54 am	8:54 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Transporter Name, Address and Permit #: IPROVO

Driver Name and Signature (conditional):

Truck Plate: AL190P

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Impact Environmental Class B Recycling Facility. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from Impact Environmental Class B Recycling Facility. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Impact Environmental, its owners, employees and/or all of its affiliated companies to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Impact Environmental Class B Recycling Facility and as directed by company staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 451.2

1

Authorized By (print) Christine B Madsen

Authorized By (title) Agent of Highline West 24th St LLC

Authorized By (sig) Christine B Madsen

TIME: 1422 DATE: 10/15/2012

Transporter:

C.P. TRUCKING

2

Driven By FRANK V.

Truck/Trailer Plate AK485D

Driver Signature FRANK V.

TIME: _____ DATE: _____

Material/Note(s):

SITE LOCATION: EA-4

RESIDENTIAL [X]

NON-RESIDENTIAL [ ]

Manifest Number 77861

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71540 GROSS WEIGHT 99140

NET TONS 35.77 TARE WEIGHT 27600

TICKET NUMBER 31684

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Valeria B

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 10/15/12 3:08pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) FRANK V.

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 88,491

Ticket Number: 43131 43131

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

95300 lb
30700 lb
64600 lb

NET (Tons):

32.300 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: DIS

Date and Time In and Out	Tare Time	Gross Time
1/24/13	3:04 pm	3:04 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

ANDRIK

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH STLLC

Authorized By (title) [signature]

Authorized By (sig) LANGAN STAFF

24JAN13 0730

Transporter: CF BROS

MUÑOZ #8

2

Driven By [illegible]

Truck/Trailer Plate AN 951 K

Driver Signature [signature]

24JAN13 0730

Material/Note(s):

Manifest Number 77910

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 86740

NET TONS 28.02 TARE WEIGHT 30700

TICKET NUMBER 40970

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

3

Date/Time 1-24-13 8:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97092

Ticket Number: 40989

SCALE TICKET

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

HIGHLINE 503 WEST 24TH
36 WEST 22ND STREET
NEW YORK, NY 10010

Part 1 GENERATOR

Generator Name, Address and Telephone #:

NON-RES

Source of Material (Description and Address):

96780 lb
30700 lb 33.040 tn
66080 lb

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

NON RES

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

CIS

	Tare Time	Gross Time
1/24/13	10:10 am	10:10 am

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

AN951K

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 1430 DATE: 24 JAN 13

Transporter: CF B205 MUNOZ #8

2

Driven By [illegible]

Truck/Trailer Plate AN951K

Driver Signature [illegible]

TIME: 1430 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 88491

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 95300

NET TONS 32.3 TARE WEIGHT 30700

TICKET NUMBER 013131

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 01-24-2013 3:05

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [illegible]

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGIAD STAFF

Authorized By (sig)

TIME: 8:29 DATE: 24 JAN 13

Transporter:

CFBROS
#8

2

Driven By

Truck/Trailer Plate AN951K

Driver Signature

TIME: 8:29 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97092

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 66080 GROSS WEIGHT 96780

NET TONS 33.04 TARE WEIGHT 30700

TICKET NUMBER _____

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) 01-24-2013

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 10:00.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

AM328E

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 40993

97,095 40993

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES:

NON RES

WEIGHT

GROSS/TARE/NET (lbs)

97140 lb
28220 lb
68920 lb

NET (Tons):

34.460 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out: CIS

	Tare Time	Gross Time
1/24/13	10:56 am	10:56 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AK517R

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1011 DATE: 24 JAN 13

Transporter:

JDC #3

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R

Driver Signature

TIME: 1011 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97095

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 97140

NET TONS 34.46 TARE WEIGHT 28020

TICKET NUMBER 40993

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 10:57

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

AN388L

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43107

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

97,100 43107
Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

4512 508 WEST 24TH STREET

Classification of Material: HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

NOTES:

NON-RES

WEIGHT

GROSS/TARE/NET (lbs)
NEW YORK NY

NET (Tons):
10010

Part 3 WEIGHT CETIFICATION

88960 lb
28220 lb 30.370 tn
60740 lb

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:
CIS

Part 4 TRANSPORTER DATA AND CERTIFICATION

Tare Time 12:14 pm Gross Time 12:15 pm

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 1137 DATE: 24JAN13

Transporter:

JDC
3

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R

Driver Signature

TIME: 1137 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97100

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 88460

NET TONS 30.37 TARE WEIGHT 28200

TICKET NUMBER 43107

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 12:15

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 41000

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

97,097 41000

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY

NET (Tons):

10010

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

NON RES

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

91200 lb
30700 lb
60500 lb

Date and Time In and Out:

30.250 tn

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

CF BR

CIS

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

Tare Time 11:41:13 Gross Time 11:41:30 11:42:30

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig):

TIME: 1100 DATE: 24 JAN 13

Transporter:

CF BROS
#8

2

Driven By

Truck/Trailer Plate: AN981K

Driver Signature:

TIME: 1100 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97097

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 91200

NET TONS 30.25 TARE WEIGHT 30700

TICKET NUMBER 41000

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1-24-2013 11:42

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 40997

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address): 97,096 40997

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

4512 503 WEST 24TH STREET

Classification of Material: HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

BLOCK 695 LOT 44

NOTES:

NON-RES

WEIGHT

GROSS/TARE/NET (lbs)
NEW YORK NY

NET (Tons):
10010

Part 3 WEIGHT CETIFICATION

96340 lb
28900 lb 33.720 tn
67440 lb

NON-RES

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:
CIS

Part 4 TRANSPORTER DATA AND CERTIFICATION

Tare Time 11:31 am Gross Time 11:32 am

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): MANLO

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
66 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKER AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1046 DATE: 24 JAN 13

Transporter:

2

Driven By G. FLORES

Truck/Trailer Plate AN421H

Driver Signature

TIME: 1046 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97096

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 96310

NET TONS 33.72 TARE WEIGHT 28900

TICKET NUMBER 40997

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 11:32

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,102~~

Ticket Number: 43116 ~~43116~~

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

98340 lb
30700 lb
67640 lb

NET (Tons):

33.820 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
1/24/13	1:39 pm	1:39 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: CF

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN9511K

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1302 DATE: 24JAN13

Transporter: CF BROS #8

2

Driven By

Truck/Trailer Plate AN 951K

Driver Signature

TIME: 1302 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97102

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67640 GROSS WEIGHT 98340

NET TONS 33.82 TARE WEIGHT 30700

TICKET NUMBER 43116

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1-24-2013 1:39.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 88,489

Ticket Number: 43126 43126

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4612
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

88200 lb
30480 lb
57720 lb

NET (Tons):

28.860 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out	Tare Time	Gross Time
11/24/13	2:30 pm	2:30 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: MANOL

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN983L

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSKY DRUMMERAS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) 0715 24JAN13

Transporter:

MAN0205
#1

2

Driven By G. F. LEERS

Truck/Trailer Plate A-N421 H

Driver Signature 0715 24JAN13

Material/Note(s):

Manifest Number 77896

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 57050 GROSS WEIGHT 86260

NET TONS 28.28 TARE WEIGHT 29200

TICKET NUMBER 43943

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/24/13 7:58

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGLAN STAFF

Authorized By (sig)

TIME: 1344 DATE: 24JAN13

Transporter:

ORACLE

2

Driven By C. OLVEIRA

Truck/Trailer Plate JDC 3AK817R

Driver Signature

TIME: 1344 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 88488

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 90740

NET TONS 31.26 TARE WEIGHT 28220

TICKET NUMBER 43123

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 8:20

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

tion Charter / Marst

Manifest Number:

Ticket Number:

CALE TICKET 83,488 43123

GENERATOR

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10

ASSIFICATION AND WEIGHT

GROSS/TARE/NET (lbs)

NET

WEIGHT

90740 lb
28220 lb
62520 lb

31

CETIFICATION

Name of Scale Operator:

Date and Time In and Out: CIS

Scale Operator Notes: 1/24/13

Tare Time 2:18 pm

AND CERTIFICATION

By signing this ticket the transport vehicle driver a
nd therefore assumes all liabilities for the gross
oad of material scaled and accepted at Lincoln P
onstruction Corp. and Impact Environmental C
knowledges that he or she is solely responsible
ffic safety rules and regulations for the operati
hicle when transporting to, driving in and leavi
st site. Further, the driver represents that he
ort any incidents of overloading or vehicle eq
ociated with the vehicle to the owner of the v
ve Persistent Construction Corp. and Impac
ulting, Inc. to serve any form of notice to th
ermore, driver accepts that he or she will a
dures at Lincoln Park West and as directe

1

Authorized By (print) LINDSAY DECORAS AGENT FOR 508 W 24TH ST LLC

Authorized By (title) AGENT APP

Authorized By (sig)

TIME: 1351 24JAN13

2

Driven By

Truck/Trailer Pla N9851

Driver Signature

TIME: 1351 DATE: 24JAN13

IMPACT ENVIRONMENTAL

Manifest Number 8889

TARE WEIGHT MUST BE INCLUDED

NET WEIGH GROSS WEIGHT 88200

NET TONS 3.86 TARE WEIGHT 30480

TICKET NUMBER 43126

Received By (int) at

Date/Time 1/24/13 2:30

Site 3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,[illegible]

Ticket Number: 43943

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 500 West 24th Street
50 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
DEB

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
[illegible] lb
[illegible] lb
[illegible] lb

NET (Tons):
[illegible] tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba
Tare Time [illegible]
Gross Time [illegible]

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECHAMP AS AGENT FOR MAGNUM SUB V. 24TH ST LLC

Authorized By (title)

Authorized By (sig) LANGLAN STAFF 6TH 29 JAN 13

Transporter:

MANGO

2

Driven By

Truck/Trailer Plate AM2172

Driver Signature 6TH 29 JAN 13

Material/Note(s):

Manifest Number 77909

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 86280

NET TONS 28.86 TARE WEIGHT 28560

TICKET NUMBER 99483950

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

3

Date/Time 1/24/13 8:25

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,000 00

Ticket Number: 43950

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
50 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
86280 lb	28.860 tn
28560 lb	
57720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Berba

Tare Time	Gross Time
[illegible]	[illegible]

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title): LANDLORD STAFF

Authorized By (sig): [signature] 0752 24JAN13

Transporter:

CF BROS
09

2

Driven By: JOSE OCOTICUCO

Truck/Trailer Plate: ANGSLY

Driver Signature: JOSE OCOTICUCO 0752 24JAN13

Material/Note(s):

Manifest Number: 77908

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60080 GROSS WEIGHT 90700

NET TONS 30.54 TARE WEIGHT 29620

TICKET NUMBER 43958

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

3

Date/Time: 1/24/13 8:45

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): JOSE OCOTICUCO

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,909 99 9988

Ticket Number: 43958

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
50 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RCG

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
90700 lb
29920 lb
31080 lb

NET (Tons):
15.540 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Dorba
Tare Time: 8:45 am
Gross Time: 8:48 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANDLORD STAFF

Authorized By (sig)

0810 24JAN13

Transporter:
ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC 3 AK817R

Driver Signature

0810 24JAN13

Material/Note(s):

Manifest Number 77907

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61060 GROSS WEIGHT 89420

NET TONS 30.53 TARE WEIGHT 28360

TICKET NUMBER 43961

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/24/13 8:56

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,907 | Ticket Number: 43961

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
39420 lb
29360 lb
91360 lb

NET (Tons):
30.530 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Berka
Tare Time 9:55 am
Gross Time 9:55 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY EDWARDS AS AGENT FOR HIGHLINE 508 W 24TH ST

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 0915 DATE: 24 JAN 13

Transporter:

MANOLO #01

2

Driven By: [illegible]

Truck/Trailer Plate: AN421H

Driver Signature: [signature]

TIME: 0915 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number: 97091

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 85960

NET TONS 28.13 TARE WEIGHT 29700

TICKET NUMBER 9943985

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/24/13 10:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,991 9[illegible]

Ticket Number: 43985

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 500 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RCO

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
35060 lb
29700 lb
5360 lb

NET (Tons): 2.68 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LAN GAN STAFF

Authorized By (sig)

TIME: 0938 DATE: 24JAN13

Transporter:

2

Driven By

Truck/Trailer Plate AM 2192

Driver Signature

TIME: 0938 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97093

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 89460

NET TONS 30.3 TARE WEIGHT 28560

TICKET NUMBER 9943991

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 10:16

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: [illegible]

Ticket Number: 43991

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 500 West 24th Street
55 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RCG

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
[illegible] lb
[illegible] lb
[illegible] lb

NET (Tons): [illegible] tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Berba

Date and Time In and Out: Tare Time [illegible] Gross Time [illegible]

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DEGRAND AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAND STAFF

Authorized By (sig): [signature]

TIME: 0955 DATE: 24JAN13

Transporter:

C T BROOS

2

Driven By: Jose Quintero

Truck/Trailer Plate: AN LESLEY

Driver Signature: Jose Quintero

TIME: 0955 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97094

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61640 GROSS WEIGHT 91260

NET TONS 30.82 TARE WEIGHT 29620

TICKET NUMBER 43998

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/24/13 10:32

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Jose Quinta

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,091 Ticket Number: 43998

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Sphere 599 West 21th Street
59 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
599 West 21th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RCS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
91360 lb	10.320 tn
29520 lb	
21040 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44025

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH IT LLC

Authorized By (title) LANDFILL STAFF

Authorized By (sig)

TIME: 1110 DATE: 24JAN13

Transporter:

WAN 020

2

Driven By

Truck/Trailer Plate AN2192

Driver Signature

TIME: 1110 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97098

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 57660 GROSS WEIGHT 86220

NET TONS 28.83 TARE WEIGHT 28560

TICKET NUMBER 44025

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 11:29

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: [illegible]

Ticket Number: 44028

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

[illegible] 555 West 24th Street
55 West 26th Street
New York, NY 10010

Source of Material (Description and Address):

555 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RCRA

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

[illegible] lb
[illegible] lb
[illegible] lb

NET (Tons): [illegible] M

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: [illegible]

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DEVANEY AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig):

TIME: 1127 DATE: 24JAN13

Transporter:

C F BROOS

2

Driven By: Jose Quintana

Truck/Trailer Plate: AN 6564

Driver Signature: Jose Quintana

TIME: 1127 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97099

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 58100 GROSS WEIGHT 87720

NET TONS 29.05 TARE WEIGHT 29620

TICKET NUMBER 44028

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/24/13 12:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Jose Quintana

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1246 DATE: 24JAN13

Transporter:

#01 MANOLO

2

Driven By G FLORES

Truck/Trailer Plate AN421H

Driver Signature

TIME: 1244 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97101

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 93240

NET TONS 31.77 TARE WEIGHT 29700

TICKET NUMBER 9944049

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 1:25

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44065

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 1413 DATE: 24JAN13

Transporter:

2

Driven By: G. FLORES

Truck/Trailer Plate: AN421H

Driver Signature: [signature]

TIME: 1413 DATE: 24JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 88490

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61060 GROSS WEIGHT 90760

NET TONS 30.53 TARE WEIGHT 29700

TICKET NUMBER 44084

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/24/13 2:58pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44058

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKER AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 1325 DATE: 24 JAN 13

Transporter:

C F BROOS

2

Driven By: Jose Quintero

Truck/Trailer Plate: AN654Y

Driver Signature: Jose Quintero

TIME: 1325 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 88487

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61680 GROSS WEIGHT 91300

NET TONS 30.87 TARE WEIGHT 29620

TICKET NUMBER 44065

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Date/Time: 1/24/13 2:07pm

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44049

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLIN STAFF

Authorized By (sig)

TIME: 1313 DATE: 24 JAN 13

Transporter:

2

Driven By

Truck/Trailer Plate AM 2192

Driver Signature

TIME: 1313 DATE: 24 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97103

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65380 GROSS WEIGHT 93940

NET TONS 32.69 TARE WEIGHT 28560

TICKET NUMBER 44058

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/24/13 1:43 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. /
Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,898

Ticket Number: 43158 43158

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: TES

WEIGHT

GROSS/TARE/NET (lbs)

96500 lb
28220 lb
68280 lb

NET (Tons):

34.140 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: GIS

	Tare Time	Gross Time
Date and Time In 4/10/18	1:17 pm	1:18 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: ocacl

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AK817R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig) 25JAN13

Transporter:
ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R/ UDC403

Driver Signature 25JAN13

Material/Note(s):

Manifest Number 77898

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 96500

NET TONS 34.14 TARE WEIGHT 28220

TICKET NUMBER 43158

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/28/13 1:18

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43151

SCALE TICKET

Part 1 GENERATOR

77,897 43151

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

4512 HIGHLINE 503 WEST 24TH STREET BLOCK 695 LOT 44 NEW YORK NY 10010

Classification of Material: 30 WEST 22ND STREET NEW YORK, NY 10010

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs): 57180 lb 29760 lb 67420 lb

NET (Tons): 33.710 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes: CIS

Tare Time 12:51 pm Gross Time 12:52 pm

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43145

SCALE TICKET

77,905 43145

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES:

res

WEIGHT

GROSS/TARE/NET (lbs)

91520 lb
29620 lb
61900 lb

NET (Tons):

30.950 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

	Tare Time	Gross Time
1/25/13	12:30 pm	12:31 pm

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

cf br

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:
AN656Y

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECHARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig) Lindy Dl

1156 25JAN13

Transporter:

CF BROS

2

Driven By Carlos Montero

Truck/Trailer Plate CF09 AN6564

Driver Signature

1156 25JAN13

Material/Note(s):

Manifest Number 77905

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 91520

NET TONS 30.95 TARE WEIGHT 29600

TICKET NUMBER 43145

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) Qt

Receiving Facility:

3

Date/Time 1/25/13 12:31

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43142

SCALE TICKET

97,020 43142

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512

Source of Material (Description and Address):

508 WEST 24TH STREET

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

HIGHLINE 503 WEST 24TH BLOCK 695 LOT 44
56 WEST 22ND STREET NEW YORK NY 10010

Classification of Material:

NEW YORK, NY 10010

NOTES: NON-RES

WEIGHT

GROSS/TARE/NET (lbs)

91360 lb
28200 lb
63160 lb

NET (Tons):

31.580 tn

Part 3 WEIGHT CETIFICATION

non res

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes: CIS

	Tare Time	Gross Time
1/25/13	12:20 pm	12:21 pm

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

manol

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

AM219Z

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1138 DATE: 25 JAN 13

Transporter:

2

Driven By

Truck/Trailer Plate AM2197

Driver Signature

TIME: 1138 DATE: 25 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97020

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 91360

NET TONS 35.58 TARE WEIGHT 28200

TICKET NUMBER 43142

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

1/25/13 12:21

Date/Time

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,015

Ticket Number: 43139

43139

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES:
NON RES

WEIGHT

GROSS/TARE/NET (lbs)

91120 lb
28220 lb
62900 lb

NET (Tons):

31.450 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/25/13 Tare Time 10:21 am Gross Time 10:21 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AK817F

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 451.2

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0858 DATE: 25 JAN 13

Transporter:

2

Driven By

Truck/Trailer Plate AM219Z

Driver Signature

TIME: 0858 DATE: 25 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97039

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 88860

NET TONS 30.33 TARE WEIGHT 28200

TICKET NUMBER 43135

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 9:38

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44182

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 500 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) 1339 25JAN13

Transporter:

C F BROOS

2

Driven By JOSE QUINTUNO

Truck/Trailer Plate AL794W

Driver Signature JOSE QUINTUNO 1339 25JAN13

Material/Note(s):

Manifest Number 77903

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60760 GROSS WEIGHT 91420

NET TONS 30.38 TARE WEIGHT 30660

TICKET NUMBER 44182

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/25/13 2:31pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44174

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

1310 25JAN13

Transporter:

CF. BROS 09

2

Driven By Carlos Montero

Truck/Trailer Plate CF09 AH6564

Driver Signature

1310 25JAN13

Material/Note(s):

Manifest Number 77904

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 5960 GROSS WEIGHT 8580

NET TONS 2.98 TARE WEIGHT 2.62

TICKET NUMBER 44174

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/25/13 1:53

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44157

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1106 DATE: 25JAN13

Transporter:
ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AK817R/JDC 3

Driver Signature

TIME: 1106 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97019

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62020 GROSS WEIGHT 90380

NET TONS 31.01 TARE WEIGHT 28360

TICKET NUMBER 44157

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/25/13 11:43

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44155

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1053 DATE: 25JAN13

Transporter:

C F BP003

2

Driven By JOSE QUITUNO

Truck/Trailer Plate A2794W

Driver Signature JOSE QUITUNO

TIME: 1053 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97018

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62980 GROSS WEIGHT 93640

NET TONS 31.49 TARE WEIGHT 30660

TICKET NUMBER 44185

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 1:35

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44150

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LAN GRAN STAFF

Authorized By (sig)

TIME: 1039 DATE: 25 JAN 13

Transporter:

2

Driven By Carlos Martinez

Truck/Trailer Plate CF09 AH6564

Driver Signature

TIME: 1059 DATE: 25 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97017

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 87880

NET TONS 30.13 TARE WEIGHT 29620

TICKET NUMBER 9944150

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 11:15

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44149

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1018 DATE: 25JAN13

Transporter:

2

Driven By

Truck/Trailer Plate AM219Z

Driver Signature

TIME: 1018 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97016

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 89220

NET TONS 30.33 TARE WEIGHT 28560

TICKET NUMBER 9944149

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 11:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44135

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAND STAFF

Authorized By (sig): [signature]

TIME: 0929 DATE: 25JAN13

Transporter:

C F BROOS

2

Driven By: Jose Quintana

Truck/Trailer Plate: AL794W

Driver Signature: Jose Quintana

TIME: 0929 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97014

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 102080

NET TONS 35.71 TARE WEIGHT 306060

TICKET NUMBER 9944135

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): at

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/25/13 10:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44129

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 0917 DATE: 25JAN13

Transporter:

2

Driven By Carlos Montiel

Truck/Trailer Plate ANLESLEY

Driver Signature

TIME: 0917 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97038

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 60360 GROSS WEIGHT 89980

NET TONS 30.18 TARE WEIGHT 29620

TICKET NUMBER 44129

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 9:52.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: [illegible]

Ticket Number: 44112

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

[illegible] 500 West 24th Street
[illegible] West 24th Street
New York, NY 10010

Source of Material (Description and Address):

500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NONRCRA

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

[illegible] lb
[illegible] lb
[illegible] lb

NET (Tons):

[illegible] tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

LINDSAY DEWARD AS AGENT FOR
Authorized By (print) HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLORD STAFF

Authorized By (sig)

TIME: 0808 DATE: 23 JAN 13

Transporter:
ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC3 AK817R

Driver Signature

TIME: 0804 DATE: 23 JAN 13

Material/Note(s):
SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97040

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED
NET WEIGHT 66640 GROSS WEIGHT 90000
NET TONS 30.82 TARE WEIGHT 28360
TICKET NUMBER 44112.

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: [illegible]

Ticket Number: 44111

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Highline 509 West 24th Street
36 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):

509 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON RCG

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
[illegible] lb	[illegible] tn
[illegible] lb	
[illegible] lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time: [illegible]

Gross Time: [illegible]

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR 508 W 24TH ST HIGHLINE LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0750 DATE: 25JAN13

Transporter:

2

Driven By CARLOS MONTHEZ

Truck/Trailer Plate CF09 AH 656Y

Driver Signature

TIME: 0750 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97041

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61860 GROSS WEIGHT 91480

NET TONS 30.93 TARE WEIGHT 29620

TICKET NUMBER 44111

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/25/13 8:34

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 27,042

Ticket Number: 44110

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 500 West 24th Street
50 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RCS

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
33150 lb
32960 lb
62300 lb

NET (Tons):
31.150 lb

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 10/25/12 8:51 am 9:31 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANDLAD STAFF

Authorized By (sig): [signature]

TIME: 0745 DATE: 25JAN13

Transporter:

C F BROOS

2

Driven By: JOSE QUINTERO

Truck/Trailer Plate: AL794W ~~AN68647~~

Driver Signature: JOSE QUINTERO

TIME: 0745 DATE: 25JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97042

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 62800 GROSS WEIGHT 93460

NET TONS 31.4 TARE WEIGHT 30660

TICKET NUMBER 44110

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Date/Time: 1/25/13 8:32

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): JOSE QUINTERO

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 44105

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):
300 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
90940 lb

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:
GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAW STAFF

Authorized By (sig)

TIME: 0734 DATE: 25/JAN/13

Transporter:

2

Driven By

Truck/Trailer Plate AM2192

Driver Signature

TIME: 0734 DATE: 25/JAN/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97043

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 90940

NET TONS 31.19 TARE WEIGHT 28510

TICKET NUMBER 994405

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/25/13 8:13

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 40966

SCALE TICKET

AN3861 77,895 40966

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512

Source of Material (Description and Address):
508 WEST 24TH STREET

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

HIGHLINE 503 WEST 24TH BLOCK 695 LOT 44
56 WEST 22ND STREET NEW YORK NY 10010
NEW YORK, NY 10010

Classification of Material:

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)
91760 lb
26980 lb
64780 lb

NET (Tons): 32.390 tn

Part 3 WEIGHT CETIFICATION

RES

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes: CIS

	Tare Time	Gross Time
1/23/13	2:37 pm	2:38 pm

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:
JDC

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

AK924W

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline/ W 24th St LLC

Authorized By (sig) Christine B Madsen

1355 1/23/2013

Transporter:

JDC TRUCKING
75 WINDSOR ST
KEARNY, NJ

2

Driven By JOE MUNIZ

Truck/Trailer Plate AK924 W

Driver Signature

Material/Note(s):

Manifest Number 77895

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 91760

NET TONS 32.39 TARE WEIGHT 26980

TICKET NUMBER 409166

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [illegible]

Receiving Facility:

3

Date/Time 1/23/13 2:40

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 40943

77,893 40943

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES:

RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
92100 lb	
26980 lb	32.560 tn
65120 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CJS

Date and Time In and Out:

	Tare Time	Gross Time
1/23/13	12:53 pm	12:53 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:
AK924W

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline / 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

1216 12/23/2013

Transporter:

JDC TRUCKING
75 WINDSOR ST
KEARNY, NJ

2

Driven By JOE MUNIZ

Truck/Trailer Plate AK924W

Driver Signature

1/23/2013

Manifest Number 77893

IMPACT ENVIRONMENTAL

Material/Note(s):

Residential X

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65120 GROSS WEIGHT 92100

NET TONS 32.56 TARE WEIGHT 26980

TICKET NUMBER 40943

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/23/13 12:54

Receiving Facility:

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43907

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

Source of Material (Description and Address):

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

NET (Tons):

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for Highline/W 24th St LLC

Authorized By (sig) Christine B Madsen

1330 1/23/2013

Transporter:

C F Bros

2

Driven By Jose Quintero

Truck/Trailer Plate AN 6660

Driver Signature Jose Quintero

1-23-13

Material/Note(s):

Manifest Number 77894

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 61970 GROSS WEIGHT 91040

NET TONS 30.96 TARE WEIGHT 29070

TICKET NUMBER 128707

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/23/13 2:26pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: [illegible]

Ticket Number: 43903

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

[illegible]

Source of Material (Description and Address):

[illegible]

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

[illegible]

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

[illegible]

NET (Tons):

[illegible]

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator:

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline W 24th St LLC

Authorized By (sig) Christ B Madsen

1330 1/23/2013

Transporter:

ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC3 AK817R

Driver Signature

1:30pm 1/23/12

Manifest Number 77890

Material/Note(s):

Residential X

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63560 GROSS WEIGHT 95520

NET TONS 31.78 TARE WEIGHT 28360

TICKET NUMBER 43703

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/23/13 2:17 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43871

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4E12
Highline 500 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
95840 lb
38560 lb
57280 lb

NET (Tons):
28.640 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out: 4/22/12 12:10 pm 12:17 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

ORACL

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
ARSTR

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Highline/508 W24th St LLC

Authorized By (sig) Christine B Madsen

1207 1/23/2013

Transporter:

ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC3 AK817R

Driver Signature

12:15 pm 1/23/13

Manifest Number 77891

Material/Note(s):

Residential X

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 85640

NET TONS 28.64 TARE WEIGHT 28360

TICKET NUMBER 9443871

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

3

Date/Time 1/23/13 12:48

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number:

Ticket Number: 43867

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 500 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
500 West 24th Street
New York, NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RESSOIL

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
37600 lb 29520 lb 57600 lb	12.000 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Bedoya

Date and Time In and Out: Tare Time 12:54 pm Gross Time 12:51 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
ANGSGY

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) Christie B Madsen

Authorized By (title) As Agent for Highline/808 W 24th St LLC

Authorized By (sig) Christie B Madsen
1/23/2013

Transporter:

C F Bros

2

Driven By Jose Ocontova

Truck/Trailer Plate AN 656 V

Driver Signature Jose Ocontova
01/23/13

Material/Note(s):

Manifest Number 77892

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 87600

NET TONS 28.99 TARE WEIGHT 59620

TICKET NUMBER _____

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Jose Ocontova

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78377 93-3035

Ticket Number: 43839

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 500 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
500 West 24th Street
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

NOTES:
RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
87760 lb	
28360 lb	29.700 tn
59400 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out: 10/24/15 Tare Time 11:12 am Gross Time 11:12 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK017R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 23rd Street
New York NY 10010

Site: 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christie B Madsen

Authorized By (title) As agent for Highline / 508 W 24th LLC

Authorized By (sig) Christie B Madsen

Time 1028 Date 1/23/2013

Transporter:

GRALE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC3AK817R

Driver Signature

Time 1/23/13 Date 10:35 AM

Manifest Number 78377

IMPACT ENVIRONMENTAL

Material/Note(s):

[illegible] X

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 57400 GROSS WEIGHT 87760

NET TONS 28.7 TARE WEIGHT 28360

TICKET NUMBER 43839

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Landfill Closure Site
Duncan Avenue
Jersey City NJ

3

Date/Time 1/23/13 11:12

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,378 DD-3634

Ticket Number: 43834

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
500 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
91720 lb	27.550 tn
20000 lb	
55060 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out: 1/29/19 Tare Time 10:59 am Gross Time 10:59 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK924W

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th Street LLC
58 West 39th Street
New York, NY 10018

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for Highline/508 W24th St LLC

Authorized By (sig) Christine Madsen

Time 1018 Date 1/23/2013

Transporter:

JDC TRUCKING
75 WINDSOR ST
KEARNY, NJ

2

Driven By JOE MUNIZ

Truck/Trailer Plate AK924W

Driver Signature

Time Date

Material/Note(s):

Site Location

Contaminated X

Non Regulated

Manifest Number 78378

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 55060 GROSS WEIGHT 81720

NET TONS 27.53 TARE WEIGHT 26660

TICKET NUMBER 43834

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dunsmuir Avenue
Lincoln Park, NJ

3

Date/Time 1/23/13 10:59

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78 370 93 3823

Ticket Number: 43823

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 500 West 24th Street
50 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
55500 lb	
29620 lb	47.990 tn
55000 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Barba

Date and Time In and Out: 4/22/13 Tare Time 10:35 am Gross Time 10:35 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
ANDREY

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

New York NY 10010

Site: 508 West 24th Street
New York NY 10010
Block 695 Lot 44

Job #4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As agent for Mightline/W 24th St LLC

Authorized By (sig) Christine B Madsen

0955 1/23/2013

Transporter:

C & F Bros

2

Driven By Jose Ocontoua

Truck/Trailer Plate AV 656 U

Driver Signature Jose Ocontoua

1-23-13

Material/Note(s):

Manifest Number 78379

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 55480 GROSS WEIGHT 85600

NET TONS 27.74 TARE WEIGHT 29620

TICKET NUMBER 43823

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/23/13 10:35

Receiving Facility:

Hackensack Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Jose Ocontoua

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,381 904-3087

Ticket Number: 43087

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
79320 lb
26660 lb
52660 lb

NET (Tons):
26.330 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
9:13 am	9:14 am

Date and Time In and Out: 1/23/13

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for 508 W 24th St LLC

Authorized By (sig) Christine B Madsen

0806 1/23/2013

Transporter:

SDC #4

2

Driven By S D Omar

Truck/Trailer Plate AK924W

Driver Signature

8:07 1/23/13

Manifest Number 78381

IMPACT ENVIRONMENTAL

Material/Note(s):

TARE WEIGHT MUST BE INCLUDED 79300

NET WEIGHT _____ GROSS WEIGHT 106280

NET TONS 26.33 TARE WEIGHT 266600

TICKET NUMBER 9943 087

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

Linden Park West Landfill Closure Site
Linden Avenue
Jersey City, NJ

3

Date/Time 1/23/13 9:14

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,392 00-13084

Ticket Number: 43084

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
84060 lb	28.130 tn
29700 lb	
56260 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:

	Tare Time	Gross Time
1/23/13	9:03 am	9:03 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JLB

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]

[illegible] 508 West 24th Street

New York, NY 10011

Block 695 Lot 44

Job # 4549

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for 508 W 24th St LLC

Authorized By (sig) Christ B Mad

Time 0800 Date 1/23/2013

Transporter:

JDC Trucking
75 Windsor Ave
Kearny, NJ

2

Driven By Joe Muniz

Truck/Trailer Plate AL876T

Driver Signature

Time Date 1/23/2013

Manifest Number 78382

IMPACT ENVIRONMENTAL

Material/Note(s):

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT 84980

NET TONS 28.13 TARE WEIGHT 28700

TICKET NUMBER 9943084

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) at

Receiving Facility:

[illegible] Landfill Closure Site

Dunsan Avenue

Jersey City, NJ

3

Date/Time 1/23/13 9:04

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,380 99-13090

Ticket Number: 43090

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
81720 lb
28360 lb
53360 lb

NET (Tons):
26.680 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/23/18 Tare Time 9:22 am Gross Time 9:22 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JLS

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AKB17R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th Street LLC
[illegible]
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christine B Madsen

Authorized By (title) As Agent for 508 W 24th St LLC

Authorized By (sig) Chrst B Madsen

Time: 0813 Date: 1/23/2013

Transporter:

ORACLE

2

Driven By C. OLIVEIRA

Truck/Trailer Plate JDC 3 AK817R

Driver Signature Ono

Time: Date:

Material/Note(s):

Manifest Number 78380

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 53360 GROSS WEIGHT 81720

NET TONS 26.68 TARE WEIGHT 28360

TICKET NUMBER 43070

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

[illegible] Landfill/Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/23/13 9:23

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Ono

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 70,363 99-13082

Ticket Number: 43082

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
83120 lb
29620 lb
53500 lb

NET (Tons):
26.750 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
1/23/12	8:56 am	8:57 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
ANGSBY

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
[illegible] 56 West 22nd Street
New York NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) Christine Madsen as Agent for 508 W 24th St LLC

Authorized By (title) As Agent for 508 W 24th St LLC

Authorized By (sig) Christ B Madsen

Time 0-800 Date 1/23/2013

Transporter:

C F Bros

2

Driven By Jose [illegible]

Truck/Trailer Plate AM 656 N

Driver Signature Jose [illegible]

Time 01-23-13

Material/Note(s):

[illegible]

[illegible] X

[illegible]

Manifest Number 78383

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 53500 GROSS WEIGHT 83120

NET TONS 26.75 TARE WEIGHT 29620

TICKET NUMBER 43082

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dunes Associates
Long Island City, NY

3

Date/Time 1/23/13 8:07

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Jose [illegible]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,386 9941771

Ticket Number: 41771

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
94300 lb	
28360 lb	32.970 tn
65940 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
1/9/13	2:36 pm	2:37 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK817R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010
Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44
Job # 4454 [illegible]

1

Authorized By (print): LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

Time: 1340 Date: 9JAN13

Transporter:

JDC
3

2

Driven By: C. OLIVEIRA

Truck/Trailer Plate: AK817R

Driver Signature: [signature]

Time: 1340 Date: 9JAN13

Material/Note(s):

[illegible]

Manifest Number: 78386

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65940 GROSS WEIGHT 94300

NET TONS 32.97 TARE WEIGHT 28360

TICKET NUMBER 41771

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Date/Time: 1/9/13 2:37

Receiving Facility:

Linoleum Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,385 9941777

Ticket Number: 41777

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
102280 lb	
29620 lb	36.330 tn
72660 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: Tare Time 1/9/13 2:51 pm Gross Time 2:51 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF

Primary Transporter Name, Address and Permit #:

CF 8

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN650Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

Time 1402 Date 9JAN13

Transporter:

CF BROS #9

2

Driven By [signature]

Truck/Trailer Plate AN656Y

Driver Signature [signature]

Time 1402 Date 9JAN13

Material/Note(s):

[illegible]

Manifest Number 78385

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72660 GROSS WEIGHT 102280

NET TONS 36.33 TARE WEIGHT 29620

TICKET NUMBER 41777

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

Lincoln Park West Landfill/Closure Site
[illegible]

3

Date/Time 1-9-13 2:57

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,388 9941744

Ticket Number: 41744

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
RES SOIL
res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
98940 lb	
29620 lb	34.660 tn
69320 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: Tare Time 1/9/13 1:22 pm Gross Time 1:23 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF

Primary Transporter Name, Address and Permit #:

CF 9

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN656Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC
56 West [illegible]
New York NY 10010

Site: 508 West 24th Street
New York NY 10010
Phone 685-[illegible]44

Job # 4612
4512 Highline

1

Authorized By (print) LINDSAY DECLARA AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig) [signature]

Time 1242 Date 9JAN13

Transporter:

CF BROS
#9

2

Driven By [signature]

Truck/Trailer Plate AN6564Y

Driver Signature [signature]

Time 1242 Date 9JAN13

Material/Note(s):

RES X

Manifest Number 78388

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69370 GROSS WEIGHT 98940

NET TONS 34.68 TARE WEIGHT 29620

TICKET NUMBER 41744

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Date/Time 1-9-13 1:24 pm

Receiving Facility:

Linoleum Park West Landfill Closure Site
Duncan Avenue
Jersey City NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,090 9941742

Ticket Number: 41742

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
non res

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
100820 lb	
30300 lb	35.260 tn
70520 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
1/9/13 1:14 pm	1:17 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL312C

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1232 DATE: 9JAN13

Transporter:

2

Driven By FREDDY

Truck/Trailer Plate AL 312 C

Driver Signature

TIME: 1232 DATE: 9JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97090

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70520 GROSS WEIGHT 100820

NET TONS 35.26 TARE WEIGHT 30300

TICKET NUMBER 41742

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/9/13 1:17pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,089 9941735

Ticket Number: 41735

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95820 lb	
28360 lb	33.730 tn
67460 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
1/9/13	12:47 pm	12:47 pm

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AK817R

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 1200 DATE: 9JAN13

Transporter:

JDC
3

2

Driven By: CARLOS OLIVEIRA

Truck/Trailer Plate: AK 817R

Driver Signature: [signature]

TIME: 1200 DATE: 9JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97089

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67460 GROSS WEIGHT 95820

NET TONS 33.73 TARE WEIGHT 28360

TICKET NUMBER U1735

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1/9/13 12:48

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,088 9941718

Ticket Number: 41718

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material Description:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
93280 lb	
28700 lb	32.290 tn
64580 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/9/13	12:06 pm	12:06 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL876T

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1119 DATE: 9JAN13

Transporter:

JAC
#2

2

Driven By Samuel Olivera

Truck/Trailer Plate AL87LT

Driver Signature

TIME: 11:19 DATE: 1/9/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97088

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 64580 GROSS WEIGHT 93280

NET TONS 32.29 TARE WEIGHT 28700

TICKET NUMBER 41718

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/9/13 12:07

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,084 9941681

Ticket Number: 41681

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
94680 lb	
28700 lb	32.990 tn
65980 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/9/13	10:25 am	10:25 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JDC

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AL8761

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY BECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Beckard

TIME: 0915 DATE: 9 JAN 13

Transporter:

SDC #2

2

Driven By Samuel Oliveira

Truck/Trailer Plate AL 8767

Driver Signature

TIME: 9:15 DATE: 1/9/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97084

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGH 65980 GROSS WEIGHT 94680

NET TONS 32.99 TARE WEIGHT 28700

TICKET NUMBER 41681

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/9/13 10:20

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,083 9941651

Ticket Number: 41651

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
97100 lb	
28360 lb	34.370 tn
68740 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: Tare Time 1/9/13 8:59 am Gross Time 9:00 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 0755 DATE: 9 JAN 13

Transporter:

JDC
#3

2

Driven By C. OLIVEIRA

Truck/Trailer Plate AR817R

Driver Signature [signature]

TIME: 0755 DATE: 9 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97083

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 68740 GROSS WEIGHT 97100

NET TONS 34.37 TARE WEIGHT 28360

TICKET NUMBER 41651

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1-9-13 9:01 am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,082 9941633

Ticket Number: 41633

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons)
93600 lb	
28700 lb	32.450 tn
64900 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
1/9/13	8:08 am	8:09 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

JD

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AL8761

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARA AS AGENT FOR HIGHLINE 508 W 24TH ST

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 0720 DATE: 9 JAN 13

Transporter:

SDC #2

2

Driven By: Samuel Omiona

Truck/Trailer Plate: AL876T ~~AL9244N~~

Driver Signature: [signature]

TIME: 7:20 DATE: 1/9/13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97082

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 64900 GROSS WEIGHT 93600

NET TONS 32.45 TARE WEIGHT 28700

TICKET NUMBER 41633

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1-9-13 8:10 am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,384

Ticket Number: 40725 40725

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

91760 lb
28500 lb
63260 lb

NET (Tons):

31.630 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/9/13 Tare Time 3:14 pm Gross Time 3:15 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AL8751

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible] 508 West 24th Street LLC

[illegible]

[illegible] 508 West 24th Street

New York, NY 10010

Block 605 Lot 44

Job # 4512

4572 Highline

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig): [signature]

Time: 1426 Date: 9JAN13

Transporter:

JDC #2

2

Driven By: [signature]

Truck/Trailer Plate: AL876T

Driver Signature: [signature]

Time: 1426 Date: 9JAN13

Material/Note(s):

[illegible] X

RCS

Manifest Number: 78384

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 63260 GROSS WEIGHT 91760

NET TONS 31.63 TARE WEIGHT 28500

TICKET NUMBER 40725

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site

Duncan Avenue

Jersey City, NJ

3

Date/Time: 1-9-13 3:16 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the ~~methods and~~ means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 78,387

Ticket Number: 40707 40707

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)

93520 lb
28500 lb
65020 lb

NET (Tons):

32.510 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
1/9/13	1:44 pm	1:46 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: jdc

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AL875T
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGH INC 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARD AS AGENT FOR HIGH LINE 508 W 24 TH ST LLC

Authorized By (title): LANDLAN STAFF

Authorized By (sig): Lindsay Declard

TIME 1250 DATE 9JAN13

Transporter:

JDC
#2

2

Driven By: JDaniel Olmeric

Truck/Trailer Plate: AL876T

Driver Signature:

TIME 1250 DATE 9JAN13

Material/Note(s):

[illegible]

[illegible] X

[illegible]

Manifest Number: 78387

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65020 GROSS WEIGHT 93520

NET TONS 32.51 TARE WEIGHT 28500

TICKET NUMBER 40707

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

[illegible] Landfill Closure Site
[illegible]
[illegible]

3

Date/Time: 1-9-13 1:46 pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,087

Ticket Number: 40695

40695

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
99340 lb	
29620 lb	34.860 tn
69720 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
1/9/13	11:55 am	11:55 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: CP

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN656Y
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1110 DATE: 9JAN13

Transporter:

CF BROS
9

2

Driven By

Truck/Trailer Plate AN656Y

Driver Signature

TIME: 1110 DATE: 9JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97087

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69720 GROSS WEIGHT 99340

NET TONS 34.86 TARE WEIGHT 29620

TICKET NUMBER 40685

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1-9-13 11:56 am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,086

Ticket Number: 40694 40694

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

104420 lb
28000 lb
76420 lb

NET (Tons):

38.210 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out:	Tare Time	Gross Time
1/9/13	11:50 am	11:51 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: CF

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AL312C

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1100 DATE: 9 JAN 13

Transporter:

#10
CF BROS

2

Driven By FREDIN

Truck/Trailer Plate A1312C

Driver Signature

TIME: _____ DATE: 1/9/2013

Manifest Number 97086

IMPACT ENVIRONMENTAL

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 104420 GROSS WEIGHT 74420

NET TONS 38.21 TARE WEIGHT 28000

TICKET NUMBER 40694

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/9/2013 11:52AM

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,085

Ticket Number: 40688 ~~40688~~

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

97900 lb
28220 lb
69680 lb

NET (Tons):

34.840 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/9/13 Tare Time 11:19 am Gross Time 11:21 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: JDC

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AK817R

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

TIME: 1001 DATE: 9JAN13

Transporter:

JPC
#3

2

Driven By: C. OLIVEIRA

Truck/Trailer Plate: AK817R

Driver Signature: [signature]

TIME: 1001 DATE: 9JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number: 97085

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 69680 GROSS WEIGHT 97900

NET TONS 34.84 TARE WEIGHT 28220

TICKET NUMBER 40688

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 1-9-13 11:21

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,070~~ ~~40406~~

Ticket Number: 40406

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

97500 lb
29620 lb
67880 lb

NET (Tons):

33.940 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: Tare Time ~~8:47 am~~ Gross Time ~~8:48 am~~
~~1/4/13~~

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
CF 9

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN656Y
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0720 DATE: 4JAN13

Transporter:

CF
#9

2

Driven By

Truck/Trailer Plate AN656Y

Driver Signature

TIME: 0720 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97070

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67880 GROSS WEIGHT 97500

RE WEIGHT 29.620

40406

Project under the management of Impact Environmental. In case of emergency call 8800 or 516-805-8900

4512
(19)

3

13 8:48am

Receiving Facility:

Lincoln Park West Landfill Closu
Duncan Avenue
Jersey City, NJ

epts that it is solely
that is being transported
ts travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,069~~ ~~40402~~

Ticket Number: 40402

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

98140 lb
28000 lb
70140 lb

NET (Tons):

35.070 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 8:41 am Gross Time 8:42 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: SALAZ

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN816L

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARDS AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 0716 DATE: 4JAN13

Transporter:

SALAZAR #11

2

Driven By Nixon & Molina

Truck/Trailer Plate AN8161L

Driver Signature Nixon & Molina

TIME: 0716 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97069

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 70140 GROSS WEIGHT 98140

NET TONS 35.07 TARE WEIGHT 28000

TICKET NUMBER 40402

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 01/04/13 8:42 am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Nixon & Molina

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,071 9940202

Ticket Number: 40202

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	
100880	lb
27760	lb
73120	lb

NET (Tons): 36.560 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
1/4/13	9:38 am	9:38 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA 4

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Deckard

TIME: 0745 DATE: 4JAN13

Transporter:

TERRA EXPRESS #4

2

Driven By WALTON

Truck/Trailer Plate AN3702

Driver Signature

TIME: 0745 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97071

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 73120 GROSS WEIGHT 100880

NET TONS 36.56 TARE WEIGHT 27760

TICKET NUMBER 40202

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 8:38.

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,072 9940208

Ticket Number: 40208

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
106700 lb	39.440 tn
27820 lb	
78880 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date	Tare Time	Gross Time
1/4/13	9:47 am	9:47 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 3
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 0805 DATE: 4JAN13

Transporter:

KCK
#3

2

Driven By

Truck/Trailer Plate AP 3687

Driver Signature

TIME: 0805 DATE: 4JAN13

Manifest Number 97072

IMPACT ENVIRONMENTAL

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 78880 GROSS WEIGHT 106700

NET TONS 39.44 TARE WEIGHT 27820

TICKET NUMBER 40208

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/4/13 9:47

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,073 9940241

Ticket Number: 40241

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
99720 lb
26980 lb
72740 lb

NET (Tons):
36.370 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
10:29 am	10:29 am

Date and Time In and Out: 1/4/13

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

SAL42

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN816L

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DEWARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAD STAFF

Authorized By (sig) Lindsay DL

TIME: 0920 DATE: 4JAN13

Transporter:

SALAZAR #1

2

Driven By Nixon E Molina

Truck/Trailer Plate ~~AL1116A~~ AN816L

Driver Signature Nixon E Molina

TIME: 0920 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97073

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77740 GROSS WEIGHT 99720

NET TONS 38.87 TARE WEIGHT 20980

TICKET NUMBER 40241

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Date/Time 1/4/13 10:30

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) Nixon E Molina

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,074 9940253

Ticket Number: 40253

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material Description:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
95120 lb	34.150 tn
26820 lb	
68300 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out:	Tare Time	Gross Time
1/4/13	10:37 am	10:37 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 2
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN369Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsay Dell

TIME: 0942 DATE: 4JAN13

Transporter:

TERRA EXPRESS #2

2

Driven By JOSE VICENTO

Truck/Trailer Plate AN369Z

Driver Signature

TIME: 0942 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97074

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 68300 GROSS WEIGHT 95120

NET TONS 34.15 TARE WEIGHT 26820

TICKET NUMBER 40253

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 10:38

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,075 9940256

Ticket Number: 40256

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material Description:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
101540 lb	35.960 tn
29620 lb	
71920 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
1/4/13	10:39 am	10:39 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGIAN STAFF

Authorized By (sig)

TIME: 0955 DATE: 4JAN13

Transporter:

#9
CF TRUCKING

2

Driven By VINNY

Truck/Trailer Plate AN656Y

Driver Signature

TIME: 0955 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97075

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71920 GROSS WEIGHT 101540

NET TONS 35.96 TARE WEIGHT 29620

TICKET NUMBER 402566

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 10:40

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,076 9940285

Ticket Number: 40285

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
104840 lb	
27760 lb	38.540 tn
77080 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Tare Time	Gross Time
1/4/13 11:40 am	11:40 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:

TERRA 4
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN370Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1015 DATE: 4 JAN 13

Transporter:

#4
TERRA
EXPRESS

2

Driven By WALTON

Truck/Trailer Plate AN3707

Driver Signature

TIME: 1015 DATE: 4 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97076

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77080 GROSS WEIGHT 104840

NET TONS 38.54 TARE WEIGHT 27760

TICKET NUMBER 40285

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 11:41

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,078~~ ~~9941005~~

Ticket Number: 41005

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
~~508 West 24th Street~~
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL

NOTES:
~~NON RES~~

WEIGHT

GROSS/TARE/NET (lbs)
104140 lb
26820 lb
77320 lb

NET (Tons):
38.660 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/4/13 ~~Tare Time~~ 12:00 pm ~~Gross Time~~ 12:01 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #:
~~TERRA~~

Secondary Transporter Name, Address and Permit #:
~~TERRA 2~~

Driver Name and Signature (conditional):
AN369Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DEUCARD AS AGENT FOR HIGHLINE W24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) [signature]

TIME: 1111 DATE: 4JAN13

Transporter:

TERRA EXPRESS #2

2

Driven By JOSE VILLENTE

Truck/Trailer Plate AN369Z

Driver Signature [signature]

TIME: 1111 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL [ ]

NON-RESIDENTIAL [X]

Manifest Number 97078

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77320 GROSS WEIGHT 104140

NET TONS 38.66 TARE WEIGHT 26820

TICKET NUMBER 41005

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print) [signature]

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 12:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig) [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,077 9940279

Ticket Number: 40279

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Material Description:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
105680 lb
27820 lb
77860 lb

NET (Tons):
38.930 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

	Tare Time	Gross Time
1/4/13	11:36 am	11:37 am

Date and Time In and Out:

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

TERRA

Primary Transporter Name, Address and Permit #:

TERRA 3
Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN368Z

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1030 DATE: 4JAN13

Transporter:

KUK
#3

2

Driven By JAKE PEREIRA

Truck/Trailer Plate AN368Z

Driver Signature

TIME: 1030 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97077

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77860 GROSS WEIGHT 105680

NET TONS 38.93 TARE WEIGHT 27820

TICKET NUMBER 40279

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 11:37

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 77,888

Ticket Number: 40439

40439

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
106300 lb	
27000 lb	39.650 tn
79300 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 3:35 pm Gross Time 3:35 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

AN368Z
Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DEVEARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) 1223 4JAN13

Transporter:

KCK

#

2

Driven By JOHN PERKINS

Truck/Trailer Plate AN3687

Driver Signature 1223 4JAN13

Material/Note(s):

X

Manifest Number 77888

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 79300 GROSS WEIGHT 106300

NET TONS 39.65 TARE WEIGHT 27000

TICKET NUMBER 40439

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/4/13 3:36

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~77,887~~ ~~40440~~

Ticket Number: 40440

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

107700 lb
30000 lb
77700 lb

NET (Tons):

38.850 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 3:37 pm Gross Time 3:37 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN3707

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig) Lindsy Dell

1205 4JAN13

Transporter:

TERRA EXPRESS #4

2

Driven By WALTON

Truck/Trailer Plate AN3707

Driver Signature

1205 4JAN13

Material/Note(s):

X

Manifest Number 77887

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 77700 GROSS WEIGHT 107,700

NET TONS 38.85 TARE WEIGHT 30000

TICKET NUMBER 40440

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/4/13 3:37pm

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,080 9941018

Ticket Number: 41018

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
96980 lb
29620 lb
67360 lb

NET (Tons):
33.680 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/4/13 Tare Time 12:10 pm Gross Time 12:10 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

CF

Primary Transporter Name, Address and Permit #:

CF 9

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN656Y

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1132 DATE: 4JAN13

Transporter: CF BROS #9

2

Driven By

Truck/Trailer Plate AN-6564

Driver Signature

TIME: 1132 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97080

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 67360 GROSS WEIGHT 96980

NET TONS 33.68 TARE WEIGHT 29620

TICKET NUMBER 41018

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 12:10

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~77,889~~ ~~40442~~

Ticket Number: 40442

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

101460 lb
29620 lb
71840 lb

NET (Tons):

35.920 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 3:50 pm Gross Time 3:50 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: CF

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN656Y

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

1

Authorized By (print) LINDSAY DECKARD AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title) LANDLAND STAFF

Authorized By (sig) 1250 4JAN13

Transporter: C F BROS #9

2

Driven By VENNY

Truck/Trailer Plate AN-6564

Driver Signature 1250 4JAN13

Material/Note(s):

Manifest Number 77889

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 71,840 GROSS WEIGHT 101,460

NET TONS 35.92 TARE WEIGHT 29620

TICKET NUMBER 100442

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

3

Date/Time 1/4/13 3:00

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,079 9941012

Ticket Number: 41012

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone.#:
4512
Highline 508 West 24th Street
56 West 22nd Street
New York, NY 10010

Source of Material (Description and Address):
508 West 24th Street
508 West 24th Street
New York NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:
NON RES SOIL
NON RES

NOTES:

WEIGHT

GROSS/TARE/NET (lbs)
102480 lb
26980 lb
75500 lb

NET (Tons):
37.750 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: Val Borba

Date and Time In and Out: 1/4/13 Tare Time 12:06 pm Gross Time 12:06 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

SALAZ

Primary Transporter Name, Address and Permit #:

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):
AN816L Hixon & milina

Truck Plate Number:

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY BELLARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig):

TIME: 1121 DATE: 4JAN13

Transporter:

KUK TRUCKING #3

2

Driven By: Nixon E Molina

Truck/Trailer Plate: AN816L

Driver Signature: Nixon E Molina

TIME: 1121 DATE: 4JAN13

Manifest Number: 97079

IMPACT ENVIRONMENTAL

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 75500 GROSS WEIGHT 102480

NET TONS 37.75 TARE WEIGHT 26980

TICKET NUMBER 41012

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 2/4/13 12:06

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Nixon E Molina

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~78,376~~ ~~40444~~

Ticket Number: 40444

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)	NET (Tons):
104460 lb	
28000 lb	38.230 tn
76460 lb	

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 4:07 pm Gross Time 4:08 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: SALAZ

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional): Nixon F Molina

Truck Plate Number: AN8161

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

Generator: Highline 508 West 24th Street LLC
56 West 22nd Street
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig): Lindsay Deckard

Time 1302 Date 4JAN12

Transporter:

2

Driven By: Nixon E Molina

Truck/Trailer Plate: AL816L

Driver Signature: Nixon E Molina

Time 1302 Date 4JAN13

Material/Note(s):

X

Manifest Number: 78376

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 76400 GROSS WEIGHT 104,460

NET TONS 38.23 TARE WEIGHT 28000

TICKET NUMBER 40444

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Dunmore, PA
Lat: 41.4[illegible]

3

Date/Time: 1/4/13 4:08

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): Nixon E Molina

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~97,081~~ ~~40464~~

Ticket Number: 40464

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

102360 lb
29840 lb
72520 lb

NET (Tons):

36.260 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 5:27 pm Gross Time 5:27 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN3697

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print) LINDSAY DECLARED AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title) LANGAN STAFF

Authorized By (sig)

TIME: 1425 DATE: 4JAN13

Transporter:

#2
TERRA EXPRESS

2

Driven By JOSE VICENTE

Truck/Trailer Plate AN3697

Driver Signature

TIME: 1425 DATE: 4JAN13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number 97081

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 72520 GROSS WEIGHT 102360

NET TONS 36.26 TARE WEIGHT 29840

TICKET NUMBER 40464

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print)

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time 1/4/13 5:28

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig)

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: ~~76,389~~ ~~40465~~

Ticket Number: 40465

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

RES

NOTES: RES

WEIGHT

GROSS/TARE/NET (lbs)

97900 lb
29840 lb
68060 lb

NET (Tons):

34.030 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 5:28 pm Gross Time 5:28 pm

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: TERRA

Secondary Transporter Name, Address and Permit #:

Driver Name and Signature (conditional):

Truck Plate Number: AN369Z

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

[illegible]
[illegible] West [illegible]
New York, NY 10010

Site: 508 West 24th Street
New York, NY 10010
Block 695 Lot 44

Job # 4512[illegible]

1

Authorized By (print): LINDSAY DECKARD AS AGENT FOR HIGHLINE 508 W 24TH ST LLC

Authorized By (title): LANGAN STAFF

Authorized By (sig): [signature]

Time: 1240 Date: 4JAN13

Transporter:

TERRA EXPRESS #2

2

Driven By: JOSE VICENTE

Truck/Trailer Plate: AN369Z

Driver Signature: [signature]

Time: 1240 Date: 4JAN13

Material/Note(s):

[illegible]

X

[illegible]

Manifest Number: 78389

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 68060 GROSS WEIGHT 97,900

NET TONS 34.03 TARE WEIGHT 29840

TICKET NUMBER 40465

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print): [signature]

Date/Time: 1/4/13 5:28

Receiving Facility:

Linden Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig): [signature]

LINCOLN PARK WEST

Managed by Persistent Construction Corp. / Impact Environmental
Duncan Avenue, Jersey City
Hudson County, NJ

Manifest Number: 97,068

Ticket Number: 40399 40399

SCALE TICKET

Part 1 GENERATOR

Generator Name, Address and Telephone #:

4512
HIGHLINE 503 WEST 24TH
56 WEST 22ND STREET
NEW YORK, NY 10010

Source of Material (Description and Address):

508 WEST 24TH STREET
BLOCK 695 LOT 44
NEW YORK NY 10010

Part 2 MATERIAL CLASSIFICATION AND WEIGHT

Classification of Material:

NON-RES

NOTES: NON RES

WEIGHT

GROSS/TARE/NET (lbs)

95260 lb
30000 lb
65260 lb

NET (Tons):

32.630 tn

Part 3 WEIGHT CETIFICATION

Certification: By issuing this ticket, I hereby certify that the above named material has been accepted by this facility, and that the weights stated above are accurate. The weights were calculated in accordance with New Jersey's Weights and Measures Program. Where loads are accepted by volume, this certification is made to the maximum capacity of the vehicle.

Where applicable, I hereby certify that the Transporter Security Seal referenced in the **Scale Operator Notes** section of this ticket was intact upon entrance to this facility, and that I removed the seal upon the removal of the bed cover on the truck.

Name of Scale Operator: CIS

Date and Time In and Out: 1/4/13 Tare Time 8:32 am Gross Time 8:33 am

Scale Operator Notes:

Part 4 TRANSPORTER DATA AND CERTIFICATION

Primary Transporter Name, Address and Permit #: SALAZ

Secondary Transporter Name, Address and Permit #: SALAZAR

Driver Name and Signature (conditional):

Truck Plate Number: AL116A

By signing this ticket the transport vehicle driver accepts sole responsibility and therefore assumes all liabilities for the gross weight of this divisible load of material scaled and accepted at Lincoln Park West by Persistent Construction Corp. and Impact Environmental Consulting, Inc. The driver acknowledges that he or she is solely responsible for compliance with all traffic safety rules and regulations for the operation and maintenance of the vehicle when transporting to, driving in and leaving from the Lincoln Park West site. Further, the driver represents that he or she will immediately report any incidents of overloading or vehicle equipment failure/hazards associated with the vehicle to the owner of the vehicle, and in doing so will relieve Persistent Construction Corp. and Impact Environmental Consulting, Inc. to serve any form of notice to the truck owner. Furthermore, driver accepts that he or she will abide by all posted safety procedures at Lincoln Park West and as directed by the facility staff.

ORIGINAL

Transportation Charter / Manifest

Generator:

GENERATOR: HIGHLINE 508 WEST 24TH STREET LLC
56 WEST 22ND STREET
NEW YORK, NY 10010

SITE: 508 WEST 24TH STREET
NEW YORK, NY 10010
BLOCK 695 LOT 44

JOB # 4512

1

Authorized By (print): LINDSAY DELEGATED AS AGENT FOR HIGHLINE W 24TH ST LLC

Authorized By (title): LANDLAW STAFF

Authorized By (sig):

TIME: 0700 DATE: 4 JAN 13

Transporter:

SALAZAR #7 Salazar Trucking

2

Driven By: Jesus Bonilla

Truck/Trailer Plate: AL116A

Driver Signature:

TIME: 0700 DATE: 4 JAN 13

Material/Note(s):

SITE LOCATION: _____

RESIDENTIAL ☐

NON-RESIDENTIAL ☒

Manifest Number: 97068

IMPACT ENVIRONMENTAL

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT 65260 GROSS WEIGHT 95260

NET TONS 32.63 TARE WEIGHT 30000

TICKET NUMBER 40399

Project under the management of Impact Environmental. In case of emergency call 631-269-8800 or 516-805-8900

Received By (print):

Receiving Facility:

Lincoln Park West Landfill Closure Site
Duncan Avenue
Jersey City, NJ

3

Date/Time: 01/04/13 8:33am

By signing this manifest the Hauler accepts that it is solely responsible for the amount of material that is being transported as well as the methods and means for its travel.

Driven By (sig):

APPENDIX E

Backfill Documentation

LANGAN

I N V O I C E

NEW YORK SAND AND STONE LLC
Brooklyn Navy Yard
63 Flushing Ave., Unit 311
Brooklyn NY 11205

Bill To

EAST-END CONCRETE CORP
948 OLD MEDFORD AVENUE
MEDFORD, NY
11763

Date : 04/20/13
Invoice#: 00041837
Page # : 1
Customer: EASTEND C
TermsNet: COD Days
Phone : 718-596-2897
Fax : 718-624-3363

PO#:

TICKET	DATE	PRODUCT	JOB DESC	QUANTITY	PRICE	FREIGHT	AMOUNT
22065667	04/19/13	ITEM 4 SUBBASE	24TH STREET	32.32	19.00	7.50	856.48
22065680	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.67	19.00	7.50	839.26
22065681	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.54	19.00	7.50	835.81
22065683	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.49	19.00	7.50	834.49
22065688	04/19/13	ITEM 4 SUBBASE	24TH STREET	32.12	19.00	7.50	851.18
22065694	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.19	19.00	7.50	826.54
22065699	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.73	19.00	7.50	840.85
22065708	04/19/13	ITEM 4 SUBBASE	24TH STREET	32.52	19.00	7.50	861.78
22065709	04/19/13	ITEM 4 SUBBASE	24TH STREET	30.30	19.00	7.50	802.95
22065710	04/19/13	ITEM 4 SUBBASE	24TH STREET	30.49	19.00	7.50	807.99
22065713	04/19/13	ITEM 4 SUBBASE	24TH STREET	31.95	19.00	7.50	846.68

TOTAL NY SALES TAX $ 816.85

TOTAL AMOUNT
THIS INVOICE $ 10020.86

I N V O I C E

NEW YORK SAND AND STONE LLC

Brooklyn Navy Yard
63 Flushing Ave., Unit 311
Brooklyn NY 11205

Bill To

EAST-END CONCRETE CORP
948 OLD MEDFORD AVENUE
MEDFORD, NY
11763

Date : 04/27/13
Invoice#: 00041897
Page # : 1
Customer: EASTEND C
TermsNet: COD Days
Phone : 718-596-2897
Fax : 718-624-3363

PO#:

TICKET	DATE	PRODUCT	JOB DESC	QUANTITY	PRICE	FREIGHT	AMOUNT
22065728	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	40.80	22.50	7.50	1220.25
22065738	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.25	22.50	7.50	877.51
22065739	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.30	22.50	7.50	879.00
22065740	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	28.00	22.50	7.50	840.00
22065755	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.60	22.50	7.50	888.00
22065758	04/22/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.20	22.50	7.50	906.00
22065791	04/23/13	ITEM 4 SUBBASE	24TH STREET	30.69	19.00	7.50	813.29
22065793	04/23/13	ITEM 4 SUBBASE	24TH STREET	28.12	19.00	7.50	745.18
22065794	04/23/13	ITEM 4 SUBBASE	24TH STREET	30.40	19.00	7.50	805.60
22065795	04/23/13	ITEM 4 SUBBASE	24TH STREET	30.86	19.00	7.50	817.79
22065800	04/23/13	ITEM 4 SUBBASE	24TH STREET	31.20	19.00	7.50	826.80
22065805	04/23/13	ITEM 4 SUBBASE	24TH STREET	31.01	19.00	7.50	821.77
22065810	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.98	22.50	7.50	899.40
22065812	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.01	22.50	7.50	900.30
22065813	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	28.64	22.50	7.50	859.20
22065814	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	31.63	22.50	7.50	948.91
22065821	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.98	22.50	7.50	899.40
22065832	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.10	22.50	7.50	903.00
22065837	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	28.67	22.50	7.50	860.10
22065841	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	31.21	22.50	7.50	936.31
22065842	04/23/13	#2 NYSDOT CRUSHED STON	24TH STREET	27.50	22.50	7.50	825.00
22065850	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.62	22.50	7.50	888.60
22065854	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.82	22.50	7.50	924.60
22065855	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	31.36	22.50	7.50	940.80
22065860	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	28.54	22.50	7.50	856.20
22065861	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.71	22.50	7.50	921.31
22065870	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.10	22.50	7.50	903.00
22065886	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.55	22.50	7.50	916.51
22065887	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.71	22.50	7.50	891.31
22065891	04/24/13	#2 NYSDOT CRUSHED STON	24TH STREET	27.98	22.50	7.50	839.40
22065911	04/25/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.72	22.50	7.50	891.60
22065913	04/25/13	#2 NYSDOT CRUSHED STON	24TH STREET	30.37	22.50	7.50	911.11

I N V O I C E

NEW YORK SAND AND STONE LLC
Brooklyn Navy Yard
63 Flushing Ave., Unit 311
Brooklyn NY 11205

Bill To

EAST-END CONCRETE CORP
948 OLD MEDFORD AVENUE
MEDFORD, NY
11763

Date : 04/27/13
Invoice#: 00041897
Page # : 2
Customer: EASTEND C
TermsNet: COD Days
Phone : 718-596-2897
Fax : 718-624-3363

PO#:

TICKET	DATE	PRODUCT	JOB DESC	QUANTITY	PRICE	FREIGHT	AMOUNT
22065919	04/25/13	#2 NYSDOT CRUSHED STON	24TH STREET	29.76	22.50	7.50	892.80

TOTAL NY SALES TAX $ 2595.93

TOTAL AMOUNT
THIS INVOICE $ 31845.98

LANGAN

TRANSMITTAL

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
River Drive Center 1 619 River Drive Elmwood Park, NJ 07407 T: 201.794.6900 F: 201.794.0366

To:

Mr. Phillip Evangelista
Triton Construction Company
100 Quentin Roosevelt Blvd, Suite 200
Garden City, NY 11530

Phone No:

(516) 780-8100

Date:

13 February 2013

Project No.

100242701

Re:

508 West 24th Street
New York, New York

Via:

- ☐ Fed Ex: ☐ Priority ☐ Standard ☐ 2-Day
- ☐ UPS: ☐ Priority ☐ Standard ☐ 2-Day
- ☐ 1st Class Mail ☐ Hand Delivery ☐ Eastern Delivery (Inter-Office)

Items:

- ☐ Prints ☐ Letter ☒ Other
- ☐ Sepia ☐ Drawings ☐ Reports
- ☒ Other **Submittal**

Copies:	Dwg. No.:	Description:
1		PDF Copy of Reviewed Submittal 312300-08-0

- ☒ For Your Information
- ☐ For Review and Comment
- ☒ For Your Use
- ☐ For Approval
- ☒ As Requested By: You
- ☐ Other:

Remarks:

Uploaded to the Submittal Exchange Website.

Copies To:

Joseph Flakowicz / Tamarkin (w/o encl)

From:

Vaidya

Seth Vaidya

LANGAN PROJECT NO. 100242701	
SUBMITTAL PACKAGE NO. 312300-08-0	
ITEM NO.	SUBMITTAL DESC.
DATE RECEIVED: 2/12/13	
✓	REVIEWED See Comments
	EXCEPTION TAKEN AS NOTED
	REVISE & RESUBMIT
	RESUBMIT SPECIFIED ITEM
	INCOMPLETE – RESUBMIT

Review is only for conformance with the design intent of information developed by Langan and issued for the Project. Contractor is responsible for performance of the work in accordance with the requirements of the Contract Documents and for all fabrication processes, means, methods, techniques, sequences and procedures of construction, coordination with the work of other contractors and subcontractors and verifying all dimensions and quantities. Contractor is also responsible for performing the work in a safe manner. Action does not authorize changes to contract requirements unless otherwise stated in a separate letter or change order. Langan's review of a specific item does not indicate approval of an assembly of which the item is a component.

LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.

REVIEWED BY:

DATE RETURNED: 2/12/13

TAMARKIN CO.
NOT REVIEWED
02/19/13

Goldstein, Hill & West Architects, LLP

X	NO EXCEPTION TAKEN
	MAKE CORRECTIONS NOTED
	REVIEWED
	REVISE AND RESUBMIT
	REJECTED
CHECKED BY: HF	DATE: 2.25.13

The Architect's review of this drawing is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for quantities; for information that pertains solely to the fabrication process or to techniques of Construction; and for co-ordination of the work of all trades. This review shall not relieve the Contractor from responsibility for deviations from drawings or specifications or errors in shop drawings or schedules.

* No exception taken.
* If soil migration into the stone voids results in loss of ground from underneath approved mat foundation subgrade, supplemental measures may be required and shall be provided by the Contractor. Such measures may include use of filter fabric to line the trenches or use of more well graded material.
* Material shall be placed and compacted, so it is suitable for mat foundation bearing.

NEW YORK SAND & STONE
THE CITY QUARRY

BROOKLYN NAVY YARD • 63 FLUSHING AVE UNIT #311 • BROOKLYN, NY 11205
(718)-596-2897 (O) (718)-624-3363(F)
WWW.NEWYORKSANDANDSTONE.COM

February 11, 2013

William Meli
Triton Construction
100 Quentin Roosevelt Blvd
Suite 200
Garden City, NY

Re: 508 West 24th Street
NY, NY 10011

Triton Construction Company, LLC
This submittal has been reviewed in accordance with the contract documents.

Subgrade Stone Fill

Job#: 508W24 **Spec/Div#:** 312300
Ref#: **Sub#:** 312300-08-0
Date: 2/12/13 **Reviewed by:** PE

Dear Mr. Meli,

Please be advised that New York Sand & Stone, LLC located at 63 Flushing Avenue, Brooklyn, NY is a New York State D.O.T. approved material supplier. The NYSDOT source number is 8-36R.

New York Sand & Stone LLC certifies that the crushed stone product (**1 ¼" Crushed Stone**) supplied for the above referenced project is mined and processed by Weldon Materials, at the quarry in Hopatcong, NJ. All items are produced from 100% blasted quarry rock. This material originates from a virgin site and is free from environmental contaminants.

Please feel free to call with any questions.

Respectfully Submitted,
NEW YORK SAND & STONE, LLC

Jodi-Ann Williams

Jodi-Ann Williams
Sales & Marketing Assistant

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
ALBANY, N.Y. 12232
www.dot.ny.gov

JOAN MCDONALD
COMMISSIONER

ANDREW M. CUOMO
GOVERNOR

January 18, 2012

Mr. Robert F. Weldon
Weldon Quarry Company, LCC
141 Central Avenue
Westfield, NJ 07090

Geological Source Report Status: **Accepted**
Location: Weldon Materials, Inc.
Source No. 8- 36R,RFM
Hopatcong, NJ

Dear Mr. Weldon:

The 2012 Geologic Source Report Annual Module submitted for the proposed operating location noted above has been reviewed and accepted. The Geological Source Report Requirements for the 2012 season have been satisfied. However, if significant discrepancies between the report and the quarry operations are noted during field inspection, a revised report will be required. Please note there shall be no extension or alteration to the limits of the area of proposed operations without prior approval from this office.

Aggregate sources which satisfy all applicable requirements of Materials Method 29, issued July 2007 will appear on the Approved List of Sources of Fine and Coarse Aggregates. The Approved List is available on the Internet @

https://www.dot.ny.gov/divisions/engineering/technical-services/materials-bureau/fine-coarse-aggregates

If the producer or the consulting geologist have any questions regarding these matters, they may call Mr. William Skerritt, or members of his staff in our Materials Bureau Engineering Geology Section at (518) 457-1038.

Very truly yours,

William Skerritt
Engineering Geology

WHS/RLW
File: 8- 36R,RFM
cc: Scott Kehoe, Region 8 Materials Engineer
Paul Sleasman, H2H Associates, LLC

WELDON QUARRY CO.
HOPATCONG, N.J.

CONTRACTOR: NEW YORK SAND & STONE
FAX NUMBER: email

ATTN. TOM DOOLEY

PROJECT : BARKLAYS CENTER. BROOKLYN, NY

DATE : 2/16/2012 **Sales Rep. :** Tom Johnson

MATERIAL : **AREMA # 4 BALLAST**

TYPICAL SIEVE ANALYSIS

SIEVE SIZE	PER CENT PASSING.	SPECS.
2"	100	100
1 1/2"	100	90 - 100
1"	52	20 - 55
3/4"	12	0 - 15
1/2"	2	N/A
3/8"	1.2	0 - 5

Loose U.W = 87.8 lbs/ft3
D.R.U.W = 102.0 lbs/ft3

THE SIEVE ANALYSIS SHOWN IS TYPICAL OF : AREMA # 4 BALLAST AGGREGATE AS PRODUCED AT THE WELDON QUARRY, HOPATCONG, NJ AND PROPOSED FOR USE ON THE ABOVE PROJECT.

RICARDO AROCHA
TECHNICAL SERVICES

LANGAN

TRANSMITTAL

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
River Drive Center 1 619 River Drive Elmwood Park, NJ 07407 T: 201.794.6900 F: 201.794.0366

To:

Mr. Phillip Evangelista
Triton Construction Company
100 Quentin Roosevelt Blvd, Suite 200
Garden City, NY 11530

Phone No:

(516) 780-8100

Date:

6 March 2013

Project No.

100242701

Re:

508 West 24th Street
New York, New York

Via:

- ☐ Fed Ex: ☐ Priority ☐ Standard ☐ 2-Day
- ☐ UPS: ☐ Priority ☐ Standard ☐ 2-Day
- ☐ 1st Class Mail ☐ Hand Delivery ☐ Eastern Delivery (Inter-Office)

Items:

- ☐ Prints ☐ Letter ☒ Other
- ☐ Sepia ☐ Drawings ☐ Reports
- ☒ Other **Submittal**

Copies:	Dwg. No.:	Description:
1		PDF Copy of Reviewed Submittal 312300-06-1

- ☒ For Your Information ☒ For Your Use ☒ As Requested By: You
- ☐ For Review and Comment ☐ For Approval ☐ Other:

Remarks:

Uploaded to the Submittal Exchange Website.

Copies To:

Joseph Flakowicz / Tamarkin (w/o encl)

From:

Seth Vaidya

LANGAN PROJECT NO. 100242701	
SUBMITTAL PACKAGE NO. 312300-06-1	
ITEM NO.	SUBMITTAL DESC.
DATE RECEIVED: 2/21/2013	
✓	REVIEWED See Comment.
	EXCEPTION TAKEN AS NOTED
	REVISE & RESUBMIT
	RESUBMIT SPECIFIED ITEM
	INCOMPLETE – RESUBMIT

Review is only for conformance with the design intent of information developed by Langan and issued for the Project. Contractor is responsible for performance of the work in accordance with the requirements of the Contract Documents and for all fabrication processes, means, methods, techniques, sequences and procedures of construction, coordination with the work of other contractors and subcontractors and verifying all dimensions and quantities. Contractor is also responsible for performing the work in a safe manner. Action does not authorize changes to contract requirements unless otherwise stated in a separate letter or change order. Langan's review of a specific item does not indicate approval of an assembly of which the item is a component.

LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.

REVIEWED BY:

DATE RETURNED: 3/6/13

THE MATERIAL MAY BE MOISTURE SENSITIVE. CARE SHOULD BE TAKEN TO MAINTAIN THE MOISTURE CONTENT OF THE MATERIAL CLOSE TO ITS OPTIMUM MOISTURE CONTENT, SO THE REQUIRED DEGREE OF COMPACTION CAN BE ACHIEVED.

Goldstein, Hill & West Architects, LLP

	NO EXCEPTION TAKEN
X	MAKE CORRECTIONS NOTED
	REVIEWED
	REVISE AND RESUBMIT
	REJECTED
CHECKED BY: HF	DATE: 3.7.13

The Architect's review of this drawing is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for quantities; for information that pertains solely to the fabrication process or to techniques of Construction; and for co-ordination of the work of all trades. This review shall not relieve the Contractor from responsibility for deviations from drawings or specifications or errors in shop drawings or schedules.

EAST END CONCRETE, CORP.

SUBMITTAL

DATE: February 20, 2013

SUBMITTED TO: Triton Construction
100 Quetin Roosevelt Blvd
Garden City, NY

RECEIVED
FEB 20 2013
TRITON

JOB: **508 West 24th St.**

ITEM: Item 4 - backfill material (New York Sand & Stone)
*** material for backfill from elevation -13'-0" to bottom of mat slab**

Triton Construction Company, LLC
This submittal has been reviewed in accordance with the contract documents.
REV 1 SUBGRADE FILL MATERIAL

Job#: 508W24 Spec/Div#: 312300
Ref#: Sub#: 312300-06-1
Date: 2/20/13 Reviewed by: PE

EAST END CONCRETE, CORP.
948 Old Medford Ave, Medford, NY 11763 Ph# (631) 716-2301 Fax# (631) 716-2303

February 20, 2013

Triton Construction Company
100 Quentin Roosevelt Blvd.
Garden City, NY 11530

RECEIVED
FEB 20 2013
TRITON

Attn: Phillip Evangelista

RE: Project – **508 West 24th Street**

Gentlemen;
The purpose of this letter is to state that we will be using Item 4 from New York Sand & Stone for the backfill material below mat slab elevations. Attached is all information on material that was provided to us.

If you need any further information please contact me.

Sincerely;

Joel Portela Digitally signed by Joel Portela
DN: cn=Joel Portela, o, ou, email=joel@eastendconcrete.com, c=US
Date: 2013.02.20 16:08:55 -05'00'

Joel Portela

MTGroup

145 Sherwood Avenue, Farmingdale, NY 11735 (631) 815-1900
NYDOB License #:30
AASHTO Accredited
Serving the Mid-Atlantic and Northeast Regions for over 30 years
www.materials-testing.com

Client: New York Sand & Stone
Brooklyn Navy Yard
63 Flushing Avenue Unit 311
Brooklyn, NY 11205

Project ID: 201210350
Weather: NA
Temperature: NA°

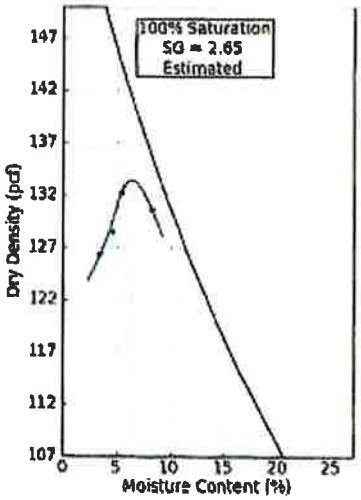
Date: 12/13/2012
Report #: 1-493-000004
Inspector: Christopher Marro

Project: NY Sand and Stone- Various

RECEIVED
FEB 20 2013
TRITON

REPORT: Proctor-4
Test: MTA Item 4

LAB NO: 5221
Test Method: ASTM D-1557 Method-



% Moisture		Dry Density Lbs./Cu.Ft.	
3.3		126.4	
4.5		128.5	
5.4		132.2	
8.2		130.6	
12.6		123.1	
6.4	Optimum	133.4	Maximum

Sieve	% Passing	Required
2 in	100	100
3/4 in	91	
1/2 in	80	
3/8 in	70	
1/4 in	59	25 - 60
No. 4	56	
No. 10	48	
No. 40	29	5 - 40
No. 100	13	
No. 200	6.8	0 - 10

Description: MTA Item 4

Group Symbol: SP-SM
AASHTO:

Desc of Rammer: Mechanical
Preparation Method: Dry
Oversized Material:
Remarks: Sample 4 of 4
Test Method (As Applicable): ASTM D-1557 Method-C

Orig: New York Sand & Stone (1-cc copy)

Respectfully Submitted,
MT Group

P. Hessel, Engineer

INSPECTIONS AND TESTS REPORTED HEREIN WERE PERFORMED IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS AND PROCEDURES. FINDINGS ARE LIMITED TO THOSE PORTIONS OF THE WORK INSPECTED AND/OR TESTED AS IDENTIFIED HEREIN. NO REPRESENTATIONS ARE MADE ABOUT THE CONDITION OF OTHER PORTIONS OF THE WORK.

NEW YORK SAND & STONE
THE CITY QUARRY
BROOKLYN NAVY YARD • 63 FLUSHING AVE UNIT #311 • BROOKLYN, NY 11205
(718)-596-2897 (O) (718)-624-3363(F)
WWW.NEWYORKSANDANDSTONE.COM

RECEIVED
FEB 20 2013
TRITON

January 17, 2013

To Whom It May Concern:

New York Sand and Stone proposes to provide crushed stone from blasted ledge rock from ongoing construction at Metropolitan Transit Authority's 86th Street Subway Station in Manhattan. This material is derived from a virgin source area not previously disturbed. The blasted ledge rock is transported by Blackridge Construction to the New York Sand & Stone, LLC facility at 75 25th Street, Brooklyn, NY. The blasted ledge rock is then screened, crushed, and screened again to produce construction aggregates for various applications. The blasted ledge rock processed at New York Sand & Stone's 25th Street Terminal derives solely from the MTA 86th Street site and to the best of our knowledge represents a finished product that is free of any known environmental contaminants.

New York Sand and Stone certifies the blasted ledge rock product to be from a virgin source and not subject to industrial or commercial operations which may have negatively impacted the material.

Respectfully Submitted,
NEW YORK SAND & STONE, LLC

Thomas A. Dooley
VP/General Manager

APPENDIX F

Sustainability Report

LANGAN

SUSTAINABILITY REPORT

This Remedial Action Work Plan provides for sustainable remediation and redevelopment through a variety of means that are defined in this Sustainability Report.

Recontamination Control

Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later that could impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of existing contamination from off-Site. The following measures were taken to prevent recontamination after cleanup:

- To prevent the transport of contamination to the Site from off-site sources, a waterproofing/vapor barrier was installed beneath the concrete cellar slab and along the sub-grade sidewalls;
- Trucks were examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris was removed with brooms, shovels and potable water, as necessary; and,
- The entire Site is covered with a composite cover system that will reduce the potential for future contamination of soil from the land surface.

The area of the Site that utilizes recontamination controls under this plan is 7,406 square feet.

Storm-water Retention

Storm-water retention improves water quality by lowering the rate of combined storm-water and sewer discharges to NYC's sewage treatment plants during periods of precipitation, and reduces the volume of untreated influent to local surface waters.

Due to the size of the Site, storm-water retention measures were not required by the Department of Buildings and therefore not installed.

Paperless Brownfield Cleanup Program

Highline West 24th Street LLC participated in OER's Paperless Brownfield Cleanup Program. Under this program, submission of electronic documents replaced submission of hard copies for the review of project documents, communications and milestone reports. It is estimated that 25 pounds of paper were conserved using this program.

Low-Energy Project Management Program

Highline West 24th Street LLC participated in OER's low-energy project management program. Under this program, whenever possible, meetings were held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation. It is estimated that 150 miles of personal transportation were avoided using this program.