224-01 MERRICK BLVD.

QUEENS, NEW YORK

Remedial Investigation Report

NYC VCP Site Number:
E-Designation Site Number: 12EH-N378Q

Prepared for:

224-01 Merrick LLC
102-10 Metropolitan Ave Suite 200
Forest Hills NY 11375

Prepared by:

J. R. Holzmacher P.E., LLC
300 Wheeler Rd, Suite 402
Hauppauge NY 11788
631-234-2220

June 2012

REMEDIAL INVESTIGATION REPORT
TABLE OF CONTENTS

LIST OF FIGURES

List of Typical Figures

LIST OF TABLES

List of Tables

APPENDICES

List of Typical Appendices

- Appendix A - 2012-02 Middleton Environmental Phase I
- Appendix B – 2012-03 JRH Health and Safety Plan
- Appendix C - Soil Boring Geologic Logs
- Appendix D - Monitoring Well Sampling Logs
- Appendix E -Laboratory Data Deliverables

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, James M. DeMartinis P.G , am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 224-01 Merrick Blvd Site, (NYC VCP Site No. 12EH-N378Q). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

James M. DeMartinis 6/28/2012

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 224-01 Merrick Boulevard in the Laurelton section of Queens, New York and is identified as Block 12963 and Lot 308 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 10,000-square feet and is bounded by residences to the north, Merrick Boulevard to the south, a commercial building to the east, and 224th Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant and contains a 7,100 square foot building.

Summary of Proposed Redevelopment Plan

A one story building with no basement, built in 1945 (now vacant), occupies 7,100 square foot of the property. This property has been designated with a Hazardous Materials "E" (E-219) as part of the Laurelton Rezoning Action (CEQR # 08DCP073Q).

The project consists of a 7,635 square foot retail building with a partial cellar. The existing building consists of a retail store and auto repair shop and will be converted into three retail stores while maintaining most of the existing structure. The following areas of the three retail spaces are as follows: 3,178 square feet for the proposed retail store number one, 2,563 square feet for the proposed retail store number two, and 1,894 square feet for the proposed retail store number three. The 1,500 square foot proposed cellar will accommodate the mechanical room. The proposed height of the building is 18-feet. The length of the street frontage is approximately 100-feet. There will be approximately 25 linear feet from the front of the finished building to the property line that will be a paved area for parking. The bottom of the cellar footing will be 10 feet below grade.

The proposed construction will require minor demolition and soil disturbance to accommodate the cellar. The soil in the footprint of the proposed cellar will be removed and properly disposed of.

Summary of Past Uses of Site and Areas of Concern

The 1926 Sanborn Map shows the site as vacant. The building was constructed in 1945 and is shown on subsequent Sanborn Maps as it is today. The Sanborn Maps designate the building as auto sales and service. Occupants of the site included Geffner Motors (1945 and 1955); Laurel Motors (1965 and 1975); and R&S Strauss a/k/a Strauss Discount Auto (1985-2008).

There was one documented UST on the site. A 1,000 gallon waste oil storage tank was removed on February 1, 2003. A search of the NYSDEC spills database did not indicate any spills associated with this UST or for that matter the site itself.

The AOCs identified for this site include:

1. The area of the former 1,000 gallon waste oil UST.
2. The area where automobile servicing occurred (i.e. hydraulic lifts, drains, etc.).

Summary of the Work Performed under the Remedial Investigation

224-01 Merrick LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Drilled 6 soil borings across the entire project Site, and collected 9 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow direction and collected 3 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 3 soil vapor probes around Site perimeter and collected 3 samples for chemical analysis to evaluate soil vapor quality.

Summary of Environmental Findings

1. Elevation of the property is approximately 25 feet mean sea level.
2. Depth to groundwater ranges from 19 to 21 feet at the Site.
3. Groundwater flow is generally from north to south beneath the Site.
4. Depth to bedrock is approximately 525 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of fine to medium grained sand with quartz pebbles. There is very little artificial fill present.Soil/fill samples collected during the RI indicated all constituents below Track 1 Soil Cleanup Objectives. No PCBs or pesticides were detected in any soil samples. Only one VOC, methylene chloride was detected in all nine soil samples and ranged from 8 to 13 ppb. A low level of TCE was detected in one deep (15 to 17 feet bgs) soil sample at concentration of 17 ppb. Similarly, very low levels of SVOCs were detected in one of the nine soil samples. Metals were detected in all soil samples at very low concentrations and were all below Track 1 UUSCOs.
6. PCBs and SVOCs were not detected in groundwater. One VOC, methylene chloride, was detected in the three groundwater samples to a maximum concentration of 3.5 ppb. These concentrations are below NYSDEC 6NYCRR Part 375 Groundwater Quality standards (GQS). Methylene chloride was also detected in the laboratory blank. Very low concentrations of several pesticides were detected in the groundwater samples. Aldrin (0.11 ppb) and endosulfan I (0.12ppb) exceeded GQS (0.12 ppb). Four dissolved metals including iron, manganese, mercury, and sodium were detected above GQS. Mercury was detected at .00108 ug/l (GQS is 0.0007 ug/l). Mercury was not detected above Track 1 UUSCOs in the 9 soil samples analyzed.
7. Low levels of petroleum related compounds were detected in soil vapor samples. Acetone was detected at 156 ug/m^3 (VP-1). Tetrachlorothene (a/k/a perchloroethylene, PCE) was detected in all samples at a maximum concentration of 406 ug/m^3 (VP-1) in undiluted samples. The highest accurate concentration of PCE was measured to be 257 ug/m^3.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

224-01 LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate an approximate quarter-acre site located at 224-01 Merrick Boulevard in the Laurelton section of Queens, New York. Commercial use is proposed for the property. The RI work was performed between May and June 2012. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 SITE LOCATION AND CURRENT USAGE

The Site is located at 224-01 Merrick Boulevard in the Laurelton section of Queens, New York and is identified as Block 12963 and Lot 308 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 10,000-square feet and is bounded by residences to the north, Merrick Boulevard to the south, a commercial building to the east, and 224th Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant and contains a 7,100 square foot building.

1.2 Proposed Redevelopment Plan

A one story building with no basement, built in 1945 (now vacant), occupies 7,100 square feet of the property. This property has been designated with a Hazardous Materials “E” (E-219) as part of the Laurelton Rezoning Action (CEQR # 08DCP073Q).

The project consists of 7,635 square foot retail building with a partial cellar. The existing building consists of a retail store and auto repair shop and will be converted into three retail stores while maintaining most of the existing structure. The following areas of the three retail spaces are as follows: 3,178 square feet for the proposed retail store number one, 2,563 square feet for the proposed retail store number two, and 1,894 square feet for the proposed retail store

number three. The 1,500 square foot proposed cellar will accommodate the mechanical room. The proposed height of the building is 18-feet. The length of the street frontage is approximately 100-feet. There will be approximately 25 linear feet from the front of the finished building to the property line that will be paved area for parking. The bottom of the cellar footing will be 10 feet below grade.

The proposed construction will require minor demolition and soil disturbance to accommodate the cellar. The soil in the footprint of the proposed cellar will be removed and properly disposed of.

Layout of the proposed site development is presented in Figure 3.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The property is bordered to the north by a residence; to the south by Merrick Boulevard and a transmission repair facility; to the east by a restaurant; and to the west by 224th Street and a truck lot.

Also within a 500 ft. radius of the property there are several religious facilities, one preschool and 1 daycare:

- One Way Church of Christ 216-11 Merrick Boulevard, Jamaica, NY- 447 ft. to the west.
- Queens Church of the Firstborn 226-01 Merrick Boulevard, Laurelton, NY- 496 ft. to the southeast.
- Middletons Early Learning Center 226-02 Merrick Boulevard, Laurelton, NY-394 ft. to the west.
- Middletons DC First Grade 225-16 Merrick Boulevard, Laurelton, NY – 500 ft. to the west.

There are several other religious facilities just outside the 500 ft radius of the site:

- Lebanon Seventh Day Adventist Church Queens, New York, NY – 0.1 mi northeast.

- United Baptist Church of Truth 222-1 Merrick Boulevard, Springfield Gardens, NY 0.1 mi west.
- Evangel Temple 227-10 Merrick Boulevard, Laurelton, NY – 0.15 east.
- Linden Seventh Day Adventist & H. Linden Seventh Day School, 137-01 228th Street, Queens, New York, NY 0.3mi south.

Figure 4 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 PAST USES AND OWNERSHIP

The 1926 Sanborn Map shows the site as vacant. The building was constructed in 1945 and is shown on subsequent Sanborn Maps as it is today. The Sanborn Maps designate the building as auto sales and service. Occupants of the site included Geffner Motors (1945 and 1955); Laurel Motors (1965 and 1975); and R&S Strauss a/k/a Strauss Discount Auto (1985-2008).

There was one documented UST on the site. A 1,000 gallon waste oil storage tank was removed on February 1, 2003. A search of the NYSDEC spills database did not indicate any spills associated with this UST or for that matter the site itself.

2.2 PREVIOUS INVESTIGATIONS

A Phase I ESA was prepared by Middleton Environmental Inc. of Babylon, New York in February 2012 (Appendix A). There are no known subsurface investigation reports for the site.

2.3 SITE INSPECTION

JRH was on-site three times to conduct activities associated with the RIR. There was no evidence of surficial contamination or activities that would cause such. These observations were consistent with the Phase I ESA prepared by Middleton.

2.4 AREAS OF CONCERN

The AOCs identified for this site include:

1. The area of the former 1,000 gallon waste oil UST.
2. The area where automobile servicing occurred (i.e. hydraulic lifts, drains, etc.).

Phase 1 Report is presented in Appendix A. A map showing areas of concern is presented in Figure 5.

3.0 PROJECT MANAGEMENT

3.1 PROJECT ORGANIZATION

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is

James M. DeMartinis with assistance from Heather Sonnenberg, Field Engineer and Patricia Zalak, Office Administrator.

3.2 HEALTH AND SAFETY

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 MATERIALS MANAGEMENT

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

224-01 Merrick LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Drilled 6 soil borings across the entire project Site, and collected 9 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow direction and collected 3 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 3 soil vapor probes around Site perimeter and collected 3 samples for chemical analysis to evaluate soil vapor quality.

4.1 GEOPHYSICAL INVESTIGATION

Due to the presence and footprint of the building, no geophysical surveys could be conducted.

4.2 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

Six soil borings were drilled both within the footprint of the existing building (to be renovated) and outside perimeter with the purpose of collecting soil samples for analysis. The soil boring locations are shown on Figure 5.

- B-1 was drilled through the existing concrete slab within the footprint of the proposed cellar;
- B-2 was drilled in the area where the UST that was previously removed is assumed to have been;
- B-3, B-4 and B-6 were drilled outside the footprint of the existing building; and
- B-5 was drilled in the area of the former service shop.

All borings were drilled using a track-mounted Geoprobe™ operated by Zebra Environmental Corp. of Lynbrook, New York. Geoprobe™ services were conducted in

accordance with the operation and sampling procedures outlined in the United States Environmental Protection Agency (EPA) Standard Operating Procedure SOP No. 2050. Non-disposable sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

Boring logs prepared by the project engineer are attached in Appendix B. These logs include PID readings and GPS coordinates. A map showing the location of soil borings and monitor wells is shown in Figure 5.

Groundwater Monitoring Well Construction

Under JRH oversight, three monitoring wells were installed in borings drilled at the locations shown on Figure 5. The wells consist of 10-feet of two-inch diameter .020 slot pre-pack well screen and the appropriate length of 2-inch riser. The screen in each well was installed to bridge the water table at the time of drilling-ideally three feet above and seven feet below.

A hydrated bentonite seal was placed directly above the sand pack and the remainder of the annular space grouted with a cement/bentonite/soil cuttings mixture. The wells were finished at land surface with six-inch flush mounts set in concrete.

Water Level Measurement

A designated measuring point was established on the top of each monitoring well casing and surveyed vertically by JRH to a common datum. Water levels in all monitoring wells were measured on June 5, 2012 and a groundwater flow elevation contour map was prepared for that measurement period.

4.3 SAMPLE COLLECTION AND CHEMICAL ANALYSIS

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public

health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were collected using a five-foot long Macrocore™ sampler with dedicated acetate liners advanced by the Geoprobe™. The Macrocore™ samples were visually characterized by a JRH engineer and field screened for the presence of volatile organic compound (VOCs) using a Mini Rae 2000 portable photoionization detector (PID). Based on these descriptions geologic soil-boring logs were prepared and are included in Appendix C.

At boring locations B-3, B-4 and B-6 soil samples were collected continuously from land surface to five feet below grade. At boring locations B-1, B-2 and B-5 soil samples were collected continuously from land surface to five feet below groundwater (20-feet below grade).

One sample was collected within the first two feet of soil borings B-3, B-4 and B-6. Two soil samples were collected for laboratory analysis in borings B-1, B-2 and B-5; one sample was collected within the first two feet and one sample was collected right above groundwater.

Borings B-1, B-5 and B-6 were drilled deeper for the purpose of monitoring well installation. Soil samples were collected continuously to the bottom of each monitoring well boring drilled to five feet below groundwater (approximately 25 feet below grade).

Soil samples were hand delivered to American Analytical Laboratories, Farmingdale, New York (NYSDOH ELAP #11418) for analysis. Soil samples were analyzed for TCL VOCs (EPA Method 8260C, rev. 2006), TCL SVOCs (EPA Method 8270D, rev. 2007), Pesticides (EPA Method 8081B, rev. 2000), PCBs (EPA Method 8082A, rev. 2000), and TAL Metals (EPA Method 6010C, rev. 2007).

Nine soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 1-5. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

The monitoring wells were purged and sampled by an experienced sampling crew on May 17, 2012. JRH collected groundwater samples from the monitoring wells using low-flow sampling methods. Prior to sampling, each well was purged a minimum of three casing volumes using a submersible centrifugal pump (Grundfos RediFlo2) with per-well dedicated polyethylene tubing set in the middle of the well screen. This is performed to ensure representative samples from the formation surrounding the wells and to eliminate standing water in the wells. Between sampling locations the pump was cleaned internally and externally with an Alconox and water solution, followed by a fresh water rinse.

Temperature, pH, dissolved oxygen, turbidity and specific conductivity measurements was collected and recorded after the removal of each casing volume. These data are presented in well sampling logs which are provided in Appendix D.

Groundwater samples were analyzed by American Analytical Laboratories, Farmingdale, New York (NYSDOH ELAP #11418) for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Pesticides/PCBs by EPA Methods 8081/8082 and the TAL metals. Groundwater samples were analyzed as filtered/unfiltered samples for TAL metals.

Quality control (QA/QC) samples include one field blank, one trip blank, and one lab blank, QA/QC for chemical analytical program and assessment of the usability of the data will be provided by Lori Beyer, Laboratory Director of American Analytical.

Three groundwater samples were collected for chemical analysis during this RI.Groundwater sample collection data is reported on Tables 6-11. Sampling logs with information on purging and sampling of groundwater monitor wells are included in Appendix D. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

The GeoprobeTM was used to drill three additional borings to install temporary soil vapor sampling points (Figure 5). The Geoprobe^{TM} advanced a Macrocore^{TM} to two feet below the proposed cellar depth at location VP-1 (12 ftbg) and two feet below the planned excavation at locations VP-2 and VP-3 (8 ftbg).

The temporary vapor points were installed using 1.5 –inch diameter rods and consist of six-inch diameter stainless steel implants attached to an expendable drive point. No water was used during the installation of the temporary probes. Teflon™ lined polyethylene tubing extended from the temporary implant to the surface. Number 2 sand was used in the boring to create a sampling zone one to two feet in length and a bentonite seal emplaced in the borehole above the sampling zone.

Vapor sampling was conducted following the installation of the vapor probes. Three implant volumes were purged prior to collecting the samples at a purge rate of 0.2 liters per minute. The vapor samples were collected using 6-liter capacity Summa™ canisters each fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of the soil gas samples so as not to exceed 0.2 liters per minute (to minimize outdoor air infiltration during sampling).

The vapor samples were collected over a four hour period and analyzed using the USEPA's TO-15 gas chromatograph/mass spectrometer (GC/MS) methodology. The samples were sent via overnight courier to Chemtech of Mountainside, New Jersey (NYSDOH ELAP # 11376).

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Lori Beyer.
Chemical Analytical Laboratory	Analytical laboratories used in the RI are NYS ELAP certified and were American Analytical Laboratories and Chemtech.
Chemical Analytical	Soil analytical methods:

Methods	• TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 1-11, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E.

5.0 ENVIRONMENTAL EVALUATION

5.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Stratigraphy

The geology underlying this site is simple. There is very little artificial fill present. The site is underlain by stratified brown, fine to medium grained sand indicative of glacial outwash deposits. The deepest borings were advanced to 25 feet below grade and did not penetrate this unit. JRH has other sites in the area that show these deposits extend to at least 50 feet below grade. The water table was encountered at approximately 20 feet below grade.

Hydrogeology

Water levels were measured on June 5, 2012. A map of groundwater level elevations with groundwater contours and inferred flow arrows is shown in Figure 5. Groundwater flow is from north to south.

5.2 SOIL CHEMISTRY

- Figure 5 shows the location of the soil samples collected. No VOCs were detected above Track 1 Unrestricted Use Soil Cleanup Objectives (UUSCOs) in the nine soil samples collected. Only methylene chloride was detected in all nine soil samples and ranged from 8 to 13 ppb. Low concentration of TCE was detected in one deep (15 to 17 feet depth) soil sample at 17 ppb.
- Low levels of SVOCs were detected in one of the nine soil samples, however, at concentrations below Track 1 UUSCOs.
- No pesticides were detected in the nine soil samples.
- No PCBs were detected in the nine soil samples.
- Very low concentrations of metals were detected but all were below Track 1 UUSCOs.
- Based on these data there are no issues with respect to soil contamination at this site.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 1-5.

5.3 GROUNDWATER CHEMISTRY

- One VOC, methylene chloride, was detected in the three groundwater samples to a maximum concentration of 3.5 ppb. However, detected concentrations were below NYSDEC 6NYCRR Part 375 Groundwater Quality standards (GQS) and methylene chloride was also detected in the laboratory blank. Therefore, methylene chloride detected in groundwater samples is likely a laboratory artifact.
- No SVOCs were detected in the three groundwater samples.
- No PCBs were detected in the three groundwater samples
- Very low concentrations of several pesticides were detected in the samples collected from MW-1 and MW-3, including slight exceedances of GQS for aldrin (0.11 ppb) and endosulfan I (0.029 ppb and 0.12ppb). All concentrations were less than 0.12 ug/l and reported as laboratory estimated (J).
- Five metals were detected above GQS in unfiltered samples - antimony (two samples), iron (three samples), manganese (three samples), mercury (one sample), and sodium (one sample).
- Four dissolved metals were detected above GQS in the filtered samples - iron, manganese, mercury, and sodium. Mercury was detected at .00108 ug/l (NYC TOGS GA standard 0.0007 ug/l) in the sample collected from MW-3. Mercury was not detected above Track 1 UUSCOs in the 9 soil samples analyzed.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. The summary of data for chemical analyses performed on groundwater samples is included as Tables 6-10. Exceedence of applicable groundwater standards are shown.

5.4 SOIL VAPOR CHEMISTRY

Soil vapor detections were very low in all three samples. Low levels of petroleum related compounds were detected in soil vapor samples. Acetone was detected at 156 ug/m^3 in VP-1. Tetrachlorothene (a/k/a perchloroethylene, PCE) was detected at a maximum concentration of 406 ug/m^3 (VP-1) in an undiluted sample. The highest accurate concentration of PCE was measured to be 257 ug/m^3. Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 11.

5.5 PRIOR ACTIVITY

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

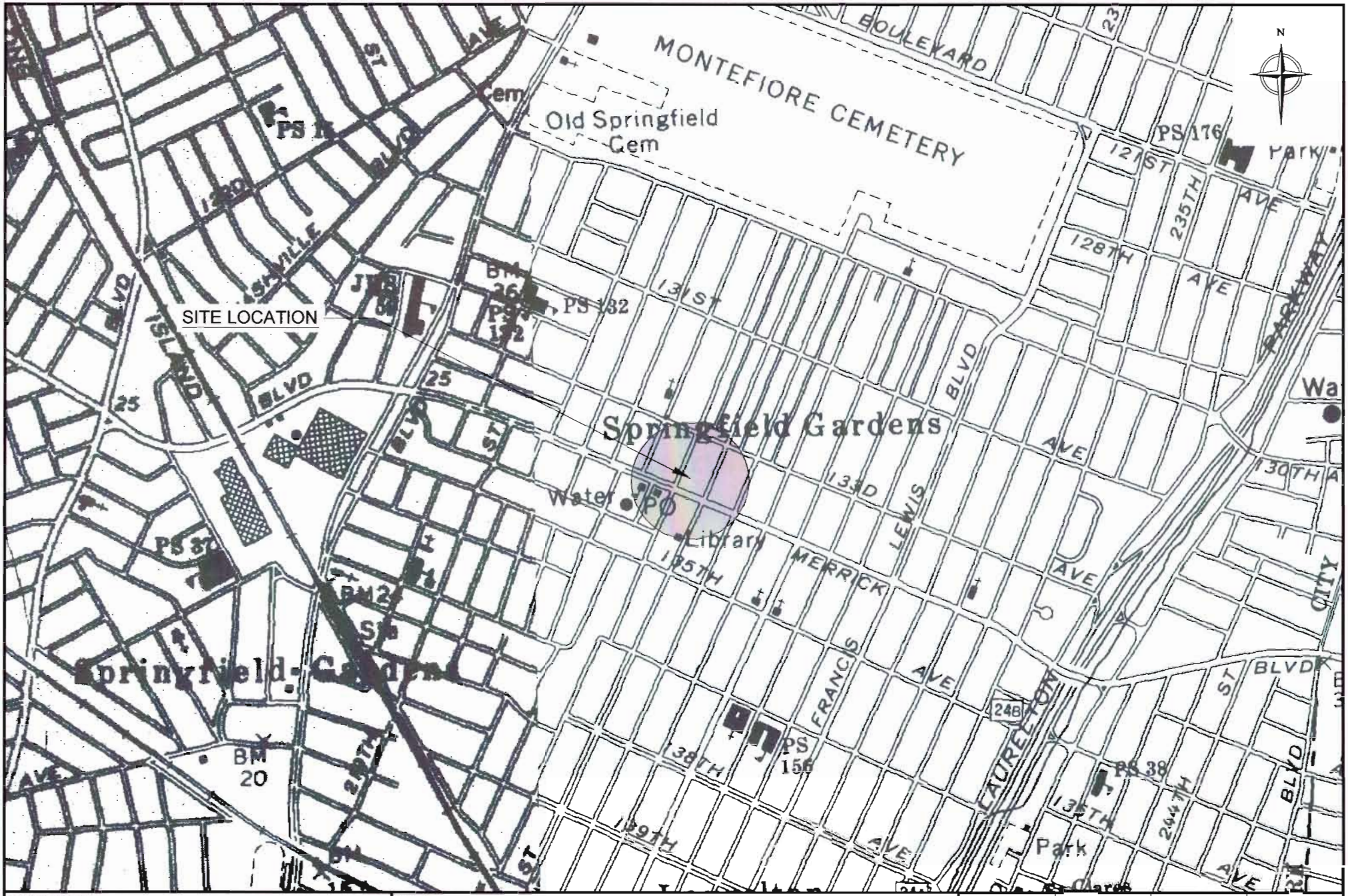
5.6 IMPEDIMENTS TO REMEDIAL ACTION

There are no known impediments to remedial action at this property.

Site-Specific Standards, Criteria and Guidance

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- NYSDOH Indoor Air Sampling & Analysis Guidance (August 8, 2001 or subsequent update)
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (draft October 2004 or subsequent final draft)
- DER Interim Strategy for Groundwater Remediation at Contaminated Sites in New York State
- 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)
- 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)
- 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992)
- 40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

Figures



PREPARED BY:
J.R. HOLZMACHER P.E., LLC
The Third Generation of Excellence
In Water Supply, Water Resources,
Civil and Environmental Engineering
300 WHEELER ROAD *PHONE # (631) 234-2220*
SUITE 402 *FAX # (631) 234-2221*
HAUPPAUGE, NEW YORK 11788 *E-MAIL: info@holzmacher.com*

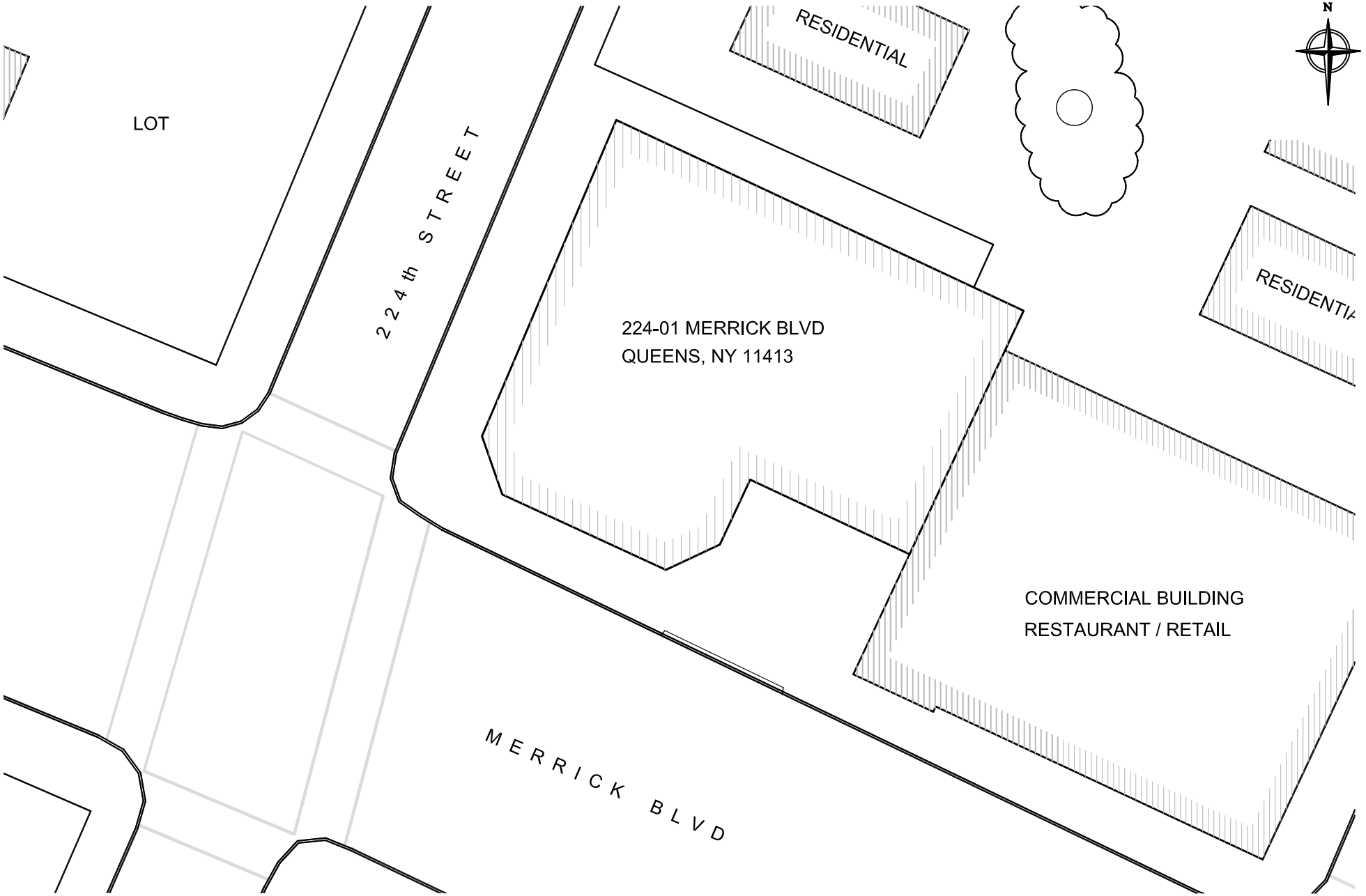
TITLE:

LOCATION MAP

224-01 MERRICK BLVD
QUEENS, NEW YORK 11413

DWN:	SCALE:	DATE:	PROJECT NO.:
BJH	1" = 1000'	5/30/2012	KoptD 12-02
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-

FIGURE NO.: 1



PREPARED BY:
J.R. HOLZMACHER P.E., LLC
The Third Generation of Excellence
In Water Supply, Water Resources,
Civil and Environmental Engineering
300 WHEELER ROAD *PHONE # (631) 234-2220*
SUITE 402 *FAX # (631) 234-2221*
HAUPPAUGE, NEW YORK 11788 *E-MAIL: info@holzmacher.com*

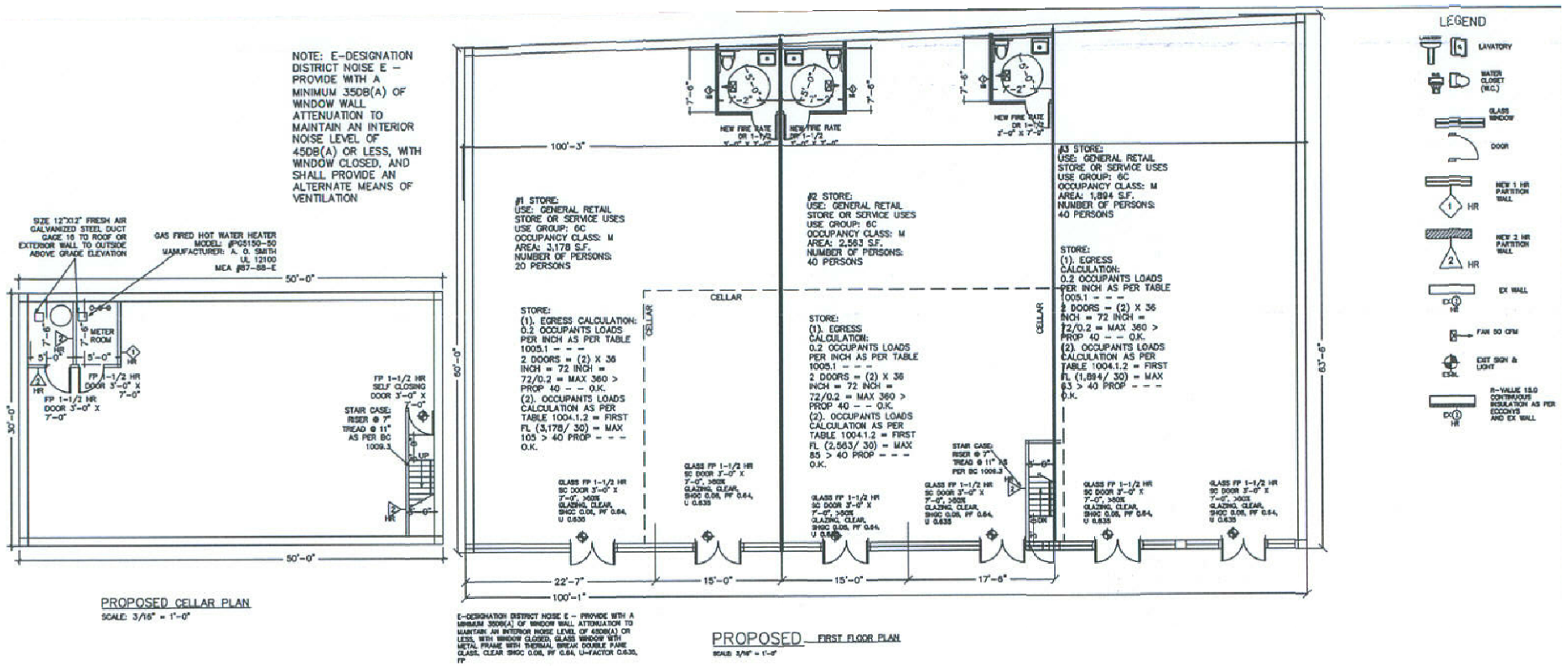
TITLE:

SITE PLAN

224-01 MERRICK BLVD
QUEENS, NEW YORK 11413

DWN:	SCALE:	DATE:	PROJECT NO.:
BJH	1" = 30'	5/31/2012	KoptD 12-02
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-

FIGURE NO.: 2



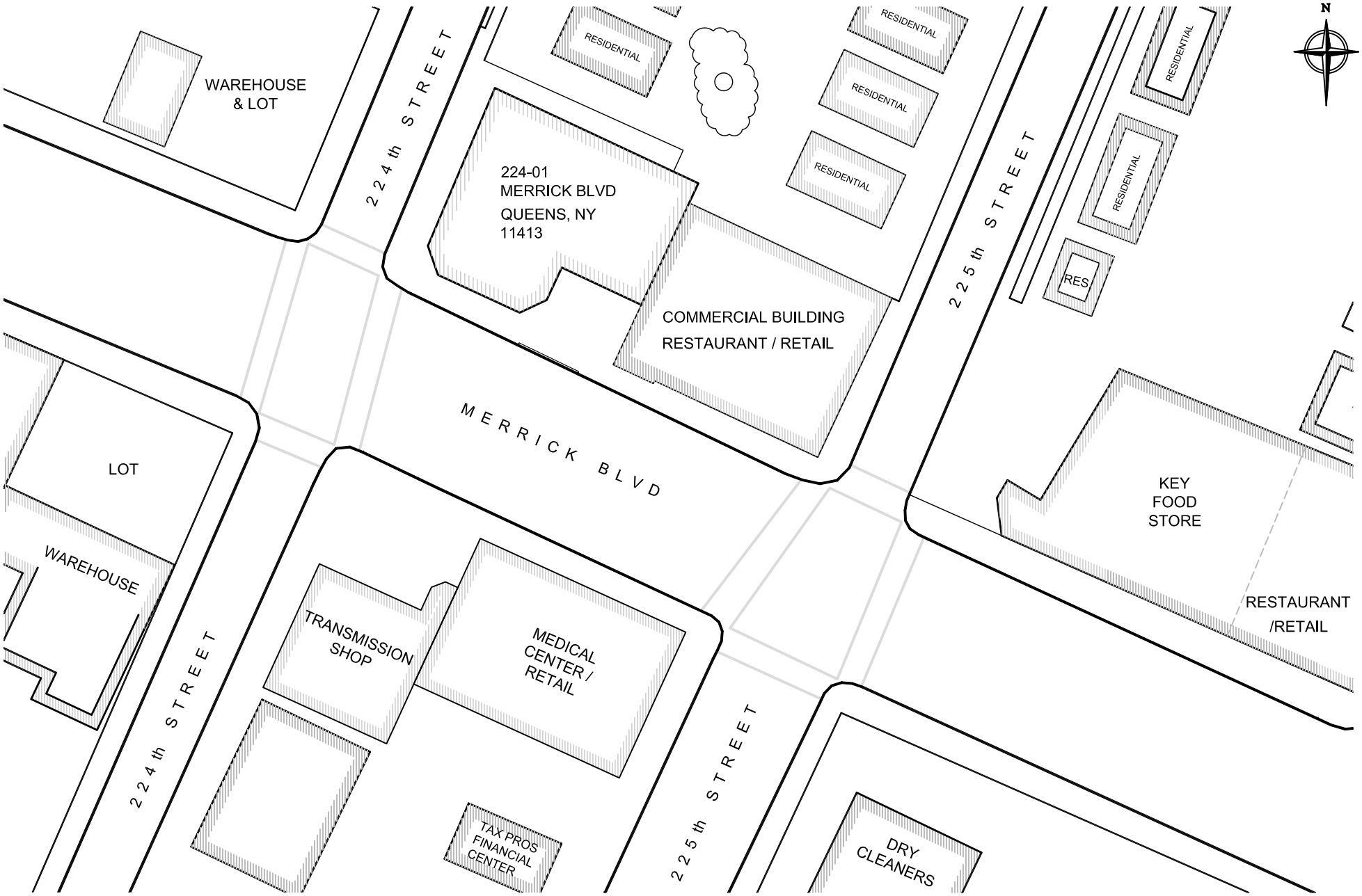
PREPARED BY:
J.R. HOLZMACHER P.E., LLC
The Third Generation of Excellence
In Water Supply, Water Resources,
Civil and Environmental Engineering
300 WHEELER ROAD *PHONE # (631) 234-2220*
SUITE 402 *FAX # (631) 234-2221*
HAUPPAUGE, NEW YORK 11788 *E-MAIL: info@holzmacher.com*

TITLE:

REDEVELOPMENT PLAN

224-01 MERRICK BLVD
QUEENS, NEW YORK 11413

DWN:	SCALE:	DATE:	PROJECT NO.:
BJH	NTS	5/31/2012	KoptD 12-02
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-
FIGURE NO.:			
3			



PREPARED BY:
J.R. HOLZMACHER P.E., LLC
The Third Generation of Excellence
In Water Supply, Water Resources,
Civil and Environmental Engineering
300 WHEELER ROAD
SUITE 402
HAUPPAUGE, NEW YORK 11788
PHONE # (631) 234-2220
FAX # (631) 234-2221
E-MAIL: info@holzmacher.com

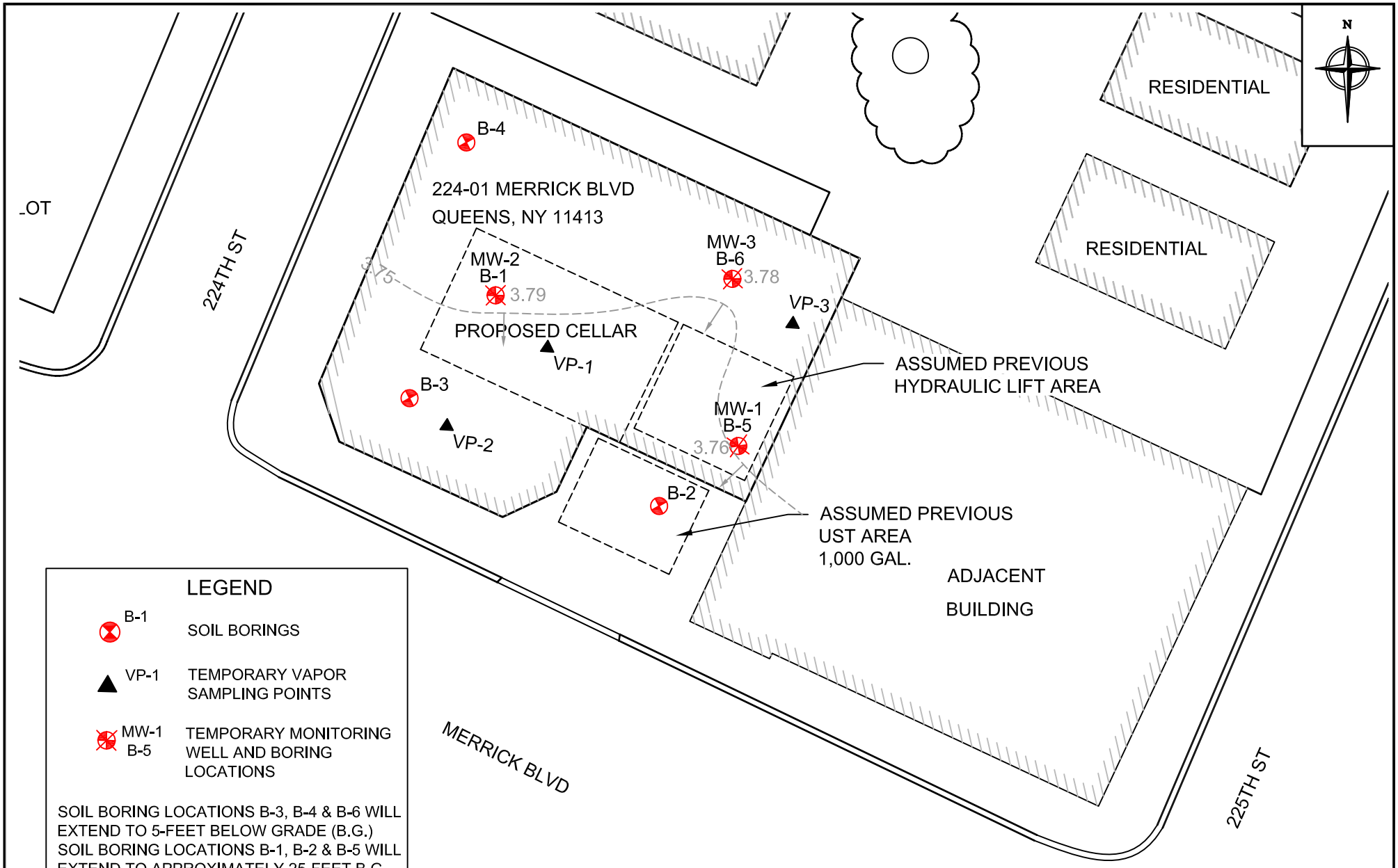
TITLE:

SURROUNDING PROPERTY USE

224-01 MERRICK BLVD
QUEENS, NEW YORK 11413

DWN:	SCALE:	DATE:	PROJECT NO.:
BJH	1" = 60'	5/31/2012	KoptD 12-02
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-

FIGURE NO.: 4



PREPARED BY:
J.R. HOLZMACHER P.E., LLC
The Third Generation of Excellence
In Water Supply, Water Resources,
Civil and Environmental Engineering
300 WHEELER ROAD
SUITE 402
HAUPPAUGE, NEW YORK 11788
PHONE # (631) 234-2220
FAX # (631) 234-2221
E-MAIL: info@holzmacher.com

TITLE: **LOCATION OF AOCS, SOIL BORINGS, WELLS, AND SOIL VAPOR SAMPLES WITH GROUNDWATER CONTOURS (JUNE 5, 2012)**
224-01 MERRICK BLVD
QUEENS, NEW YORK 11413

DWN:	SCALE:	DATE:	PROJECT NO.:
BJH	1:30	4/10/2012	KoptD 12-02
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-

FIGURE NO.: 5

Tables

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals For Soils
EPA Method 8260
Table 1

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
1,1,1,2-Tetrachloroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	19000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	PPB	47000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	PPB	47000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	PPB	17000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichloropropane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	9800	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	PPB	9800	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Propanol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals For Soils
EPA Method 8260
Table 1

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
4-Methyl-2-pentanone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	PPB	2900	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	1400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	PPB	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	PPB	59000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	30000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon-114	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals For Soils
EPA Method 8260
Table 1

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
m,p-Xylene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	PPB	62000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	PPB	51000	12B	13B	11B	13B	9.4B	9.2B	11B	10B	8B
n-Amyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	5500	ND	ND	ND	17	ND	ND	ND	ND	ND
Toluene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	210	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND - Not detected
Objectives as per NYSDEC Part 375-6.8(b)
J- Laboratory Estimated Concentration
B- Detected in Blank
NA- Not Available

J.R. Holzmacher P.E., LLC
Consulting Engineers

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Semi Volatile Organic Chemicals (SVOCs) for Soils
EPA Method 8270 STARS
Table 2

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
1,2,4-Trichlorobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	PPB	17000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	9800	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3´-Dichlorobenzidine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
3+4-Methylphenol	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Semi Volatile Organic Chemicals (SVOCs) for Soils
EPA Method 8270 STARS
Table 2

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
Atrazine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	PPB	1000	ND	ND	28J	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	PPB	100000	ND	ND	71J	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	PPB	NA	ND	ND	890	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	PPB	330	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	PPB	14000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	28J
Fluorene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	PPB	500	ND	ND	37J	ND	ND	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Semi Volatile Organic Chemicals (SVOCs) for Soils
EPA Method 8270 STARS
Table 2

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
Isophorone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Parathion	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	PPB	2400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	PPB	100000	ND	ND	33J	ND	ND	ND	ND	ND	ND
Phenol	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	PPB	100000	ND	ND	57	ND	ND	ND	ND	ND	ND
Pyridine	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND - Not detected
Objectives as per NYSDEC Part 375-6.8(b)
J- Laboratory Estimated Concentration
B- Detected in Blank
NA- Not Available

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Pesticides Method 8081
Table 3

Client SampleID:		SCOs	B-2	B-2	B-5	B-5	B-3	B-1	B-1	B-4	B-6
Depth of Sample		Restricted	0-2'	15-17'	0-2'	15-17'	0-2'	0-2'	15-17'	0-2'	0-2'
Sampling Date:		Residential	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012
Analyte	Units	Track 2									
4,4´-DDD	PPB	2600	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4´-DDE	PPB	1800	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4´-DDT	PPB	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	PPB	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	PPB	97	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	PPB	72	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	PPB	910	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzilate	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
DBCP	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	PPB	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	PPB	39	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	PPB	4800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	PPB	4800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	PPB	4800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	PPB	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	PPB	280	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	PPB	420	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	PPB	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND - Not detected
Objectives as per NYSDEC Part 375-6.8(b)
NA- Not Available

J.R. Holzmacher P.E., LLC
Consulting Engineers

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

PCBs Method 8082
Table 4

Client SampleID:		SCOs	B-2	B-2	B-5	B-5	B-3	B-1	B-1	B-4	B-6
Depth of Sample		Restricted	0-2'	15-17'	0-2'	15-17'	0-2'	0-2'	15-17'	0-2'	0-2'
Sampling Date:		Residential	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012
Analyte	Units	Track 2									
Aroclor 1016	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1262	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1268	PPB	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
All results in ppb
ND - Not detected

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

TAL Metals Analysis
Table 5

Client SampleID:		**SCOs**	**B-2**	**B-2**	**B-5**	**B-5**	**B-3**	**B-1**	**B-1**	**B-4**	**B-6**
Depth of Sample		**Restricted**	**0-2'**	**15-17'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**	**15-17'**	**0-2'**	**0-2'**
Sampling Date:		**Residential**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**	**5/2/2012**
Analyte	**Units**	**Track 2**									
Aluminum	PPM	NA	1480	1520	1770	1640	1840	1610	1670	2190	2460
Antimony	PPM	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	PPM	16	0.682	0.507	1.45	1.14	0.735	0.452J	0.614	0.982	0.969
Barium	PPM	350	6.08	11.2	13.7	8.39	7.56	6.77	7.78	9.21	15
Beryllium	PPM	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	PPM	2.5	ND	ND	0.108J	ND	ND	ND	ND	ND	ND
Calcium	PPM	NA	222	281	2100	157	244	110	350	144	182
Chromium	PPM	36	4.52	8.08	7.24	9.22	5.18	3.98	4.16	8.1	6.16
Cobalt	PPM	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	PPM	270	3.7	4.36	7.67	5.06	3.71	2.5	3.59	2.97	3.47
Iron	PPM	NA	3450	3240	11600	3830	3320	2630	2970	3390	3530
Lead	PPM	400	1.7	1.43	11.2	2	2.09	1.33	1.58	1.94	3.74
Magnesium	PPM	NA	582	597	650	445	761	590	690	861	613
Manganese	PPM	NA	74.8	104	105	41.1	107	92.1	82.9	134	106
Mercury	PPM	0.81	ND	ND	0.0103	ND	ND	ND	0.00533J	ND	0.00941
Nickel	PPM	140	7.2	7.39	5.57	6.04	9.23	6.85	6.79	7.89	8.02
Potassium	PPM	NA	249	434	344	355	285	218	315	420	221
Selenium	PPM	36	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	PPM	36	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	PPM	NA	22.6	28.6	164	42.6	28	13	20.1	22.4	31
Thallium	PPM	NA	ND	ND	ND	ND	ND	ND	ND	0.371J	ND
Vanadium	PPM	NA	5.45	4.87	7.7	9.12	5.77	3.77	4.31	6.7	6.44
Zinc	PPM	2200	6.32	6.7	24.8	11	8.06	5.79	7.76	8.62	9.78

Notes:
All results in ppm
ND - Not detected
NA- Not Available

J.R. Holzmacher P.E., LLC
Consulting Engineers

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals for Groundwater
EPA Method 8260
Table 6

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**	**Trip Blank**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**				
1,1,1,2-Tetrachloroethane	PPB	5	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	0.2	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	1	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND
1,1-Dichloroethane	PPB	5	ND	ND	ND	ND
1,1-Dichloroethene	PPB	5	ND	ND	ND	ND
1,1-Dichloropropene	PPB	5	ND	ND	ND	ND
1,2,3-Trichlorobenzene	PPB	5	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	0.04	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	PPB	5	ND	ND	ND	ND
1,2,4-Trichlorobenzene	PPB	5	ND	ND	ND	ND
1,2,4-Trimethylbenzene	PPB	5	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.04	ND	ND	ND	ND
1,2-Dibromoethane	PPB	5	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	3	ND	ND	ND	ND
1,2-Dichloroethane	PPB	0.6	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND
1,3,5-Trimethylbenzene	PPB	5	ND	ND	ND	ND
1,3-Dichlorobenzene	PPB	3	ND	ND	ND	ND
1,3-dichloropropane	PPB	0.4	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	NR	ND	ND	ND	ND
1,4-Dioxane	PPB	3	ND	ND	ND	ND
2,2-Dichloropropane	PPB	1	ND	ND	ND	ND
2-Butanone	PPB	50*	ND	ND	ND	ND
2-Chloroethyl vinyl ether	PPB	50*	ND	ND	ND	ND
2-Chlorotoluene	PPB	5	ND	ND	ND	ND
2-Hexanone	PPB	50*	ND	ND	ND	ND
2-Propanol	PPB	7	ND	ND	ND	ND
4-Chlorotoluene	PPB	5	ND	ND	ND	ND
4-Isopropyltoluene	PPB	5	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	50*	ND	ND	ND	ND
Acetone	PPB	50*	ND	ND	ND	ND
Acrolein	PPB	20	ND	ND	ND	ND
Acrylonitrile	PPB	5	ND	ND	ND	ND
Benzene	PPB	1	ND	ND	ND	ND
Bromobenzene	PPB	5	ND	ND	ND	ND
Bromochloromethane	PPB	5	ND	ND	ND	ND
Bromodichloromethane	PPB	50*	ND	ND	ND	ND
Bromoform	PPB	50*	ND	ND	ND	ND
Bromomethane	PPB	5	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals for Groundwater
EPA Method 8260
Table 6

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**	**Trip Blank**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**				
Carbon disulfide	PPB	50*	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND
Chlorobenzene	PPB	5	ND	ND	ND	ND
Chlorodifluoromethane	PPB	50*	ND	ND	ND	ND
Chloroethane	PPB	5	ND	ND	ND	ND
Chloroform	PPB	7	ND	ND	ND	ND
Chloromethane	PPB	5	ND	ND	ND	ND
cis-1,2-Dichloroethene	PPB	5	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	0.4	ND	ND	ND	ND
Dibromochloromethane	PPB	5	ND	ND	ND	ND
Dibromomethane	PPB	5	ND	ND	ND	ND
Dichlorodifluoromethane	PPB	5	ND	ND	ND	ND
Diisopropyl ether	PPB	50*	ND	ND	ND	ND
Ethanol	PPB	50*	ND	ND	ND	ND
Ethyl acetate	PPB	50*	ND	ND	ND	ND
Ethylbenzene	PPB	5	ND	ND	ND	ND
Freon-114	PPB	50*	ND	ND	ND	ND
Hexachlorobutadiene	PPB	0.5	ND	ND	ND	ND
Isopropyl acetate	PPB	50*	ND	ND	ND	ND
Isopropylbenzene	PPB	5	ND	ND	ND	ND
m,p-Xylene	PPB	5	ND	ND	ND	ND
Methyl Acetate	PPB	50*	ND	ND	ND	ND
Methyl tert-butyl ether	PPB	10	ND	ND	ND	ND
Methylene chloride	PPB	5	3B	2.7B	2.7B	3.5B
n-Amyl acetate	PPB	50*	ND	ND	ND	ND
Naphthalene	PPB	10	ND	ND	ND	ND
n-Butyl acetate	PPB	50*	ND	ND	ND	ND
n-Butylbenzene	PPB	5	ND	ND	ND	ND
n-Propyl acetate	PPB	50*	ND	ND	ND	ND
n-Propylbenzene	PPB	5	ND	ND	ND	ND
o-Xylene	PPB	5	ND	ND	ND	ND
p-Diethylbenzene	PPB	50*	ND	ND	ND	ND
p-Ethyltoluene	PPB	50*	ND	ND	ND	ND
sec-Butylbenzene	PPB	5	ND	ND	ND	ND
Styrene	PPB	5	ND	ND	ND	ND
t-Butyl alcohol	PPB	50*	ND	ND	ND	ND
tert-Butylbenzene	PPB	5	ND	ND	ND	ND
Tetrachloroethene	PPB	5	ND	ND	ND	ND
Toluene	PPB	5	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	5	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	0.4	ND	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Volatile Organic Chemicals for Groundwater
EPA Method 8260
Table 6

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**	**Trip Blank**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**				
Trichloroethene	PPB	5	ND	ND	ND	ND
Trichlorofluoromethane	PPB	5	ND	ND	ND	ND
Vinyl acetate	PPB	50*	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND

Notes:
ND - Not detected
**- Guidance Value*
B- Detected in Blank

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Semi Volatile Organic Chemicals (SVOCs) for Groundwater
EPA Method 8270
Table 7

Client SampleID:		NYS Groundwater Standards	MW-1	MW-2	MW-3
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**			
1,2,4-Trichlorobenzene	PPB	5	ND	ND	ND
1,2-Dichlorobenzene	PPB	3	ND	ND	ND
1,3-Dichlorobenzene	PPB	3	ND	ND	ND
1,4-Dichlorobenzene	PPB	3	ND	ND	ND
2,4,5-Trichlorophenol	PPB	NA	ND	ND	ND
2,4,6-Trichlorophenol	PPB	NA	ND	ND	ND
2,4-Dichlorophenol	PPB	5	ND	ND	ND
2,4-Dimethylphenol	PPB	50	ND	ND	ND
2,4-Dinitrophenol	PPB	10	ND	ND	ND
2,4-Dinitrotoluene	PPB	5	ND	ND	ND
2,6-Dinitrotoluene	PPB	5	ND	ND	ND
2-Chloronaphthalene	PPB	10	ND	ND	ND
2-Chlorophenol	PPB	NA	ND	ND	ND
2-Methylnaphthalene	PPB	NA	ND	ND	ND
2-Methylphenol	PPB	NA	ND	ND	ND
2-Nitroaniline	PPB	5	ND	ND	ND
2-Nitrophenol	PPB	NA	ND	ND	ND
3,3´-Dichlorobenzidine	PPB	5	ND	ND	ND
3+4-Methylphenol	PPB	1	ND	ND	ND
3-Nitroaniline	PPB	5	ND	ND	ND
4,6-Dinitro-2-methylphenol	PPB	NA	ND	ND	ND
4-Bromophenyl phenyl ether	PPB	NA	ND	ND	ND
4-Chloro-3-methylphenol	PPB	NA	ND	ND	ND
4-Chloroaniline	PPB	NA	ND	ND	ND
4-Chlorophenyl phenyl ether	PPB	NA	ND	ND	ND
4-Nitroaniline	PPB	5	ND	ND	ND
4-Nitrophenol	PPB	NA	ND	ND	ND
Acenaphthene	PPB	20	ND	ND	ND
Acenaphthylene	PPB	NA	ND	ND	ND
Acetophenone	PPB	NA	ND	ND	ND
Aniline	PPB	NA	ND	ND	ND
Anthracene	PPB	50	ND	ND	ND
Atrazine	PPB	NA	ND	ND	ND
Azobenzene	PPB	NA	ND	ND	ND
Benzaldehyde	PPB	NA	ND	ND	ND
Benzidine	PPB	NA	ND	ND	ND
Benzo(a)anthracene	PPB	0.002	ND	ND	ND
Benzo(a)pyrene	PPB	NA	ND	ND	ND
Benzo(b)fluoranthene	PPB	0.002	ND	ND	ND
Benzo(g,h,i)perylene	PPB	NA	ND	ND	ND
Benzo(k)fluoranthene	PPB	0.002	ND	ND	ND
Benzoic acid	PPB	NA	ND	ND	ND

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Semi Volatile Organic Chemicals (SVOCs) for Groundwater
EPA Method 8270
Table 7

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**			
Benzyl alcohol	PPB	NA	ND	ND	ND
Biphenyl	PPB	NA	ND	ND	ND
Bis(2-chloroethoxy)methane	PPB	NA	ND	ND	ND
Bis(2-chloroethyl)ether	PPB	NA	ND	ND	ND
Bis(2-chloroisopropyl)ether	PPB	NA	ND	ND	ND
Bis(2-ethylhexyl)phthalate	PPB	5	ND	ND	ND
Butyl benzyl phthalate	PPB	NA	ND	ND	ND
Caprolactam	PPB	NA	ND	ND	ND
Carbazole	PPB	NA	ND	ND	ND
Chrysene	PPB	0.002	ND	ND	ND
Dibenzo(a,h)anthracene	PPB	NA	ND	ND	ND
Dibenzofuran	PPB	NA	ND	ND	ND
Diethyl phthalate	PPB	NA	ND	ND	ND
Dimethyl phthalate	PPB	NA	ND	ND	ND
Di-n-butyl phthalate	PPB	50	ND	ND	ND
Di-n-octyl phthalate	PPB	50	ND	ND	ND
Fluoranthene	PPB	50	ND	ND	ND
Fluorene	PPB	50	ND	ND	ND
Hexachlorobenzene	PPB	0.04	ND	ND	ND
Hexachlorobutadiene	PPB	0.5	ND	ND	ND
Hexachlorocyclopentadiene	PPB	5	ND	ND	ND
Hexachloroethane	PPB	5	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	PPB	0.002	ND	ND	ND
Isophorone	PPB	50	ND	ND	ND
Naphthalene	PPB	10	ND	ND	ND
Nitrobenzene	PPB	0.4	ND	ND	ND
N-Nitrosodimethylamine	PPB	NA	ND	ND	ND
N-Nitrosodi-n-propylamine	PPB	NA	ND	ND	ND
N-Nitrosodiphenylamine	PPB	50	ND	ND	ND
Parathion	PPB	NA	ND	ND	ND
Pentachlorophenol	PPB	NA	ND	ND	ND
Phenanthrene	PPB	50	ND	ND	ND
Phenol	PPB	NA	ND	ND	ND
Pyrene	PPB	50	ND	ND	ND
Pyridine	PPB	50	ND	ND	ND

Notes:
ND - Not detected
**- Guidance Value*

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Pesticides (Method 8021)
Table 8

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**			
4,4´-DDD	PPB	0.3	ND	ND	ND
4,4´-DDE	PPB	0.2	ND	ND	ND
4,4´-DDT	PPB	0.2	ND	ND	ND
Aldrin	PPB	0.001	ND	ND	**0.11J**
alpha-BHC	PPB	0.01	ND	ND	ND
beta-BHC	PPB	0.04	ND	ND	ND
Chlordane	PPB	0.05	ND	ND	ND
Chlorobenzilate	PPB	NA	ND	ND	ND
DBCP	PPB	NA	ND	ND	ND
delta-BHC	PPB	0.04	ND	ND	ND
Dieldrin	PPB	0.004	ND	ND	ND
Endosulfan I	PPB	0.009	**0.029J**	ND	**0.12J**
Endosulfan II	PPB	0.009	ND	ND	ND
Endosulfan sulfate	PPB	0.009	ND	ND	ND
Endrin	PPB	ND	ND	ND	ND
Endrin aldehyde	PPB	5	ND	ND	ND
Endrin ketone	PPB	5	ND	ND	0.051J
gamma-BHC	PPB	0.05	ND	ND	ND
Heptachlor	PPB	0.04	ND	ND	ND
Heptachlor epoxide	PPB	0.03	0.043J	ND	ND
Hexachlorobenzene	PPB	0.04	ND	ND	ND
Hexachlorocyclopentadiene	PPB	5	ND	ND	ND
Methoxychlor	PPB	35	ND	ND	ND
Toxaphene	PPB	0.06	ND	ND	ND

Notes:
ND - Not detected
J- Laboratory Estimated Concentration

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

PCBs as AROCLORS- METHOD 8082
Table 9

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-2**	**MW-3**
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**			
Aroclor 1016	PPB	0.09	ND	ND	ND
Aroclor 1221	PPB	0.09	ND	ND	ND
Aroclor 1232	PPB	0.09	ND	ND	ND
Aroclor 1242	PPB	0.09	ND	ND	ND
Aroclor 1248	PPB	0.09	ND	ND	ND
Aroclor 1254	PPB	0.09	ND	ND	ND
Aroclor 1260	PPB	0.09	ND	ND	ND
Aroclor 1262	PPB	0.09	ND	ND	ND
Aroclor 1268	PPB	0.09	ND	ND	ND

Notes:
ND - Not detected

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

TAL Metals Analysis- Groundwater
Table 10

Client SampleID:		**NYS Groundwater Standards**	**MW-1**	**MW-1**	**MW-2**	**MW-2**	**MW-3**	**MW-3**
			Total	Dissolved	Total	Dissolved	Total	Dissolved
Sampling Date:			**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**	**5/17/2012**
Analyte	**Units**	**Limits**						
Aluminum	PPM	NA	4	0.0382	0.658	0.0228	2.21	0.0278
Antimony	PPM	0.003	**0.0133J**	ND	**0.0109J**	ND	ND	ND
Arsenic	PPM	0.025	ND	ND	ND	ND	ND	ND
Barium	PPM	1	0.0797	0.0456	0.143	0.147	0.0412	0.0261
Beryllium	PPM	0.003	ND	ND	ND	ND	ND	ND
Cadmium	PPM	0.005	ND	ND	ND	ND	ND	ND
Calcium	PPM	NA	16.5	16.7	35.5	38.6	15.2	15.7
Chromium	PPM	0.05	0.0316	ND	0.00853J	ND	0.0194J	ND
Cobalt	PPM	NA	ND	ND	ND	ND	ND	ND
Copper	PPM	0.2	0.0245	ND	ND	ND	0.0101J	ND
Iron	PPM	0.3	**20.7**	**1.97**	**8.17**	**6.55**	**8.08**	**1.34**
Lead	PPM	0.025	0.00819J	ND	ND	ND	ND	ND
Magnesium	PPM	35	3.67	3.08	5.11	5.45	2.47	2.05
Manganese	PPM	0.3	**0.417**	**0.347**	**1.92**	**2.04**	**1.27**	**1.22**
Mercury	PPM	0.0007	ND	0.00025	ND	0.00027	**0.00155**	**0.00108**
Nickel	PPM	0.1	0.0262	0.00691J	0.0192J	0.0164J	0.0187J	0.00895J
Potassium	PPM	NA	3.39	2.98	7.04	6.95	2.7	1.99
Selenium	PPM	0.01	ND	ND	ND	ND	ND	ND
Silver	PPM	0.05	ND	ND	ND	ND	ND	ND
Sodium	PPM	20	4.5	4.8	**36.3**	**35.4**	5.78	6.2
Thallium	PPM	0.0005	ND	ND	ND	ND	ND	ND
Vanadium	PPM	NA	0.0124J	ND	ND	ND	0.0054J	ND
Zinc	PPM	2	0.0787	0.0207	0.0388	0.035	0.0533	0.0446

Notes:
All results in ppm
ND - Not detected
N/A- Not Applicable

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Vapor Sampling
Table 11

Sample ID	VP-1	VP-1DL	VP-2	VP-2DL	VP-3	VP-3DL
Lab Sample Number	D2545-01	D2545-01DL	D2545-02	D2545-02DL	D2545-03	D2545-03DL
Sampling Date	5/3/2012	5/3/2012	5/3/2012	5/3/2012	5/3/2012	5/3/2012
Matrix	AIR	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1	10	1	10	1	10
Units	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3
COMPOUND						
1,1,1-Trichloroethane	0.22J	1.64U	0.16U	1.64U	0.22J	1.64U
1,1,2,2-Tetrachloroethane	ND	17.2U	1.72U	17.2U	1.72U	17.2U
1,1,2-Trichloroethane	ND	13.6U	1.36U	13.6U	1.36U	13.6U
1,1,2-Trichlorotrifluoroethane	ND	19.2U	1.92U	19.2U	1.92U	19.2U
1,1-Dichloroethane	ND	10.1U	1.01U	10.1U	1.01U	10.1U
1,1-Dichloroethene	ND	9.91U	0.99U	9.91U	0.99U	9.91U
1,2,4-Trichlorobenzene	ND	18.6U	1.86U	18.6U	1.86U	18.6U
1,2,4-Trimethylbenzene	10.3	7.37JD	12.3	8.85JD	9.83	7.87JD
1,2-Dibromoethane	ND	19.2U	1.92U	19.2U	1.92U	19.2U
1,2-Dichlorobenzene	ND	15U	1.5U	15U	1.5U	15U
1,2-Dichloroethane	ND	10.1U	1.01U	10.1U	1.01U	10.1U
1,2-Dichloropropane	ND	11.6U	1.16U	11.6U	1.16U	11.6U
1,3,5-Trimethylbenzene	3.24	12.3U	3.54	12.3U	3.05	12.3U
1,3-Butadiene	ND	5.53U	0.55U	5.53U	0.55U	5.53U
1,3-Dichlorobenzene	ND	15U	1.5U	15U	1.5U	15U
1,4-Dichlorobenzene	ND	15U	1.5U	15U	1.5U	15U
1,4-Dioxane	ND	9.01U	0.9U	9.01U	0.9U	9.01U
2,2,4-Trimethylpentane	6.07	11.7U	4.3	11.7U	5.6	11.7U
2-Butanone	11.8	7.67JD	6.19	4.72JD	6.78	5.31JD
2-Chlorotoluene	ND	12.9U	1.29U	12.9U	1.29U	12.9U
4-Ethyltoluene	6.39	12.3U	6.39	4.92JD	5.41	12.3U
4-Methyl-2-Pentanone	2.25	10.2U	1.52J	10.2U	2.09	10.2U
Acetone	116E	156D	73.6E	87.9D	97.4E	133D
Allyl Chloride	ND	7.83U	0.78U	7.83U	0.78U	7.83U
Benzene	2.81	7.99U	2.52	7.99U	2.94	7.99U
Bromodichloromethane	ND	16.8U	1.67U	16.8U	1.67U	16.8U
Bromoethene	ND	10.9U	1.09U	10.9U	1.09U	10.9U
Bromoform	ND	25.8U	2.58U	25.8U	2.58U	25.8U
Bromomethane	ND	9.71U	0.97U	9.71U	0.97U	9.71U
Carbon Disulfide	0.69J	7.79U	1.71	7.79U	0.72J	7.79U
Carbon Tetrachloride	0.31J	1.89U	0.19J	1.89U	0.25J	1.89U
Chlorobenzene	ND	11.5U	1.15U	11.5U	1.15U	11.5U
Chloroethane	ND	6.6U	0.66U	6.6U	0.66U	6.6U
Chloroform	1.17J	12.2U	4.35	12.2U	10.3	10.3JD
Chloromethane	0.39J	5.16U	0.21J	5.16U	0.52U	5.16U
cis-1,2-Dichloroethene	ND	9.91U	0.99U	9.91U	0.99U	9.91U
cis-1,3-Dichloropropene	ND	11.4U	1.13U	11.4U	1.13U	11.4U
Cyclohexane	0.96J	8.61U	1.14J	8.61U	1.38J	8.61U
Dibromochloromethane	ND	21.3U	2.13U	21.3U	2.13U	21.3U
Dichlorodifluoromethane	1.53J	12.4U	1.73J	12.4U	2.03J	12.4U
Dichlorotetrafluoroethane	ND	17.5U	1.75U	17.5U	1.75U	17.5U
Ethyl Benzene	10.4	6.95JD	9.99	6.95JD	9.99	6.95JD
Heptane	9.02	4.92JD	6.56	10.2U	7.38	4.1JD
Hexachloro-1,3-Butadiene	ND	26.7U	2.67U	26.7U	2.67U	26.7U

224-01 Merrick Blvd
Queens NY
OER# 12EH-N378Q

Vapor Sampling
Table 11

Sample ID	VP-1	VP-1DL	VP-2	VP-2DL	VP-3	VP-3DL
Lab Sample Number	**D2545-01**	**D2545-01DL**	**D2545-02**	**D2545-02DL**	**D2545-03**	**D2545-03DL**
Sampling Date	**5/3/2012**	**5/3/2012**	**5/3/2012**	**5/3/2012**	**5/3/2012**	**5/3/2012**
Matrix	**AIR**	**AIR**	**AIR**	**AIR**	**AIR**	**AIR**
Dilution Factor	**1**	**10**	**1**	**10**	**1**	**10**
Units	**Ug/M3**	**Ug/M3**	**Ug/M3**	**Ug/M3**	**Ug/M3**	**Ug/M3**
COMPOUND						
Hexane	ND	8.81U	0.88U	8.81U	0.88U	8.81U
m/p-Xylene	34.3	23JD	33.4	23.5JD	32.1	23.5JD
Methyl Methacrylate	ND	10.2U	1.02U	10.2U	1.02U	10.2U
Methyl tert-Butyl Ether	ND	9.01U	0.9U	9.01U	0.9U	9.01U
Methylene Chloride	6.95	11.1JD	5.21	9.38JD	5.21	10.1JD
o-Xylene	10.9	8.25JD	10.9	8.25JD	9.99	8.25JD
Styrene	ND	10.6U	1.06U	10.6U	1.06U	10.6U
t-1,3-Dichloropropene	ND	11.4U	1.13U	11.4U	1.13U	11.4U
tert-Butyl alcohol	19.4	19.1D	12.4	11.8JD	17	17.3D
Tetrachloroethene	**406E**	**250D**	**230E**	**176D**	**305E**	**257D**
Tetrahydrofuran	2.06	7.37U	1.33J	7.37U	1.47J	7.37U
Toluene	45.2	26.8D	33.2	21.9D	35.4	24.9D
trans-1,2-Dichloroethene	ND	9.91U	0.99U	9.91U	0.99U	9.91U
Trichloroethene	0.48	1.61U	0.32J	1.61U	0.97	1.61U
Trichlorofluoromethane	1.07J	14U	1.18J	14U	1.35J	14U
Vinyl Chloride	ND	6.39U	0.64U	6.39U	0.64U	6.39U

Total Concentration.	709.91	521.16	464.18	364.17	573.86	508.58

Qualifiers

ND - The compound was not detected at the indicated concentration.
N - Presumptive Evidence of a Compound
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
E (Organics) - Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
E (Inorganics) - The reported value is estimated because of the presence of interference.
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed

Appendix A
2012-02 Middleton Environmental Phase I

Middleton Environmental Inc.

Environmental Consultants and Engineers

50 Park Avenue, Babylon, NY 11702
(631) 321-4300 • Fax (631) 321-4349
middletonenvironmental.com

Phase I Environmental Site Assessment Report

MEI Project Number 12-123

Property located at 224-01 Merrick Boulevard in Jamaica, New York

February 16, 2012

Prepared for GCP Capital Group, LLC.

Middleton Environmental Inc.

Environmental Consultants and Engineers

50 Park Avenue, Babylon, NY 11702
(631) 321-4300 • Fax (631) 321-4349
middletonenvironmental.com

February 16, 2012

Mr. Paul Greenbaum
Partner
GCP Capital Group, LLC.
60 Cutter Mill Road
Great Neck, NY 11021

Re: Phase I Environmental Site Assessment Report
224-01 Merrick Boulevard in Jamaica, New York 11413
MEI Project #: 12-123

In accordance with our agreement, Middleton Environmental Incorporated (MEI), has performed a Phase I Environmental Assessment of the above referenced property in accordance with ASTM E 1527-2005 Scope of Work. Please find a copy of the report enclosed.

We declare that to the best of our knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR and, we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Thank you for choosing MEI as your consultant for this project. If you have any questions, or if we can be of additional service, please contact us at 631 321 4300.

Respectfully submitted,

Middleton Environmental Incorporated

Prepared by: Donald J. Middleton Jr.
President

Reviewed by: Donald J. Middleton Jr.
President

Table of Contents and Report Format For Phase I Environmental Site Assessment (as per ASTM E1527-05 Protocol)

1.0 EXECUTIVE SUMMARY

At the request of GCP Capital Group, LLC., Middleton Environmental Incorporated (MEI) has performed a Phase I Environmental Site Assessment (ESA) of the property located at 224-01 Merrick Boulevard in Jamaica, New York, herein referred to as the Subject Property. The main objective of this ESA was to identify ***recognized environmental conditions*** in connection with the Subject Property, defined in ASTM Practice E 1527-05 as the presence or likely presence of any hazardous substances or petroleum products that indicate an existing release, a past release, or a material threat of a release. This ESA also includes a preliminary evaluation of certain potential environmental conditions that are outside the scope of ASTM Practice E 1527-05. This assessment has revealed no evidence of REC's in connection with the Subject Property.

The Subject Property includes a square-shaped parcel totaling approximately 0.23 acres. The Subject Property is currently improved with one (1) commercial building. The building is 7,100 square feet in size and has one (1) floor and no basement. The building is vacant and was formerly utilized as an auto parts store and small repair area. The building contains a main floor repair shop area and larger retail area. A review of the New York City Building Department property profile overview indicated that the building was constructed in 1945. The building and a concrete paved loading area on the north side of the building occupies the majority of the parcel with minimal areas of exposed grounds or landscaped areas bordered by municipal walkways and right-of-ways.

Below is the Assessment Summary Table presenting our recommended actions for the Subject Property. MEI's Findings and Opinions and Recommendations for further action or investigation (if any), are presented in Section 10.0.

ASSESSMENT SUMMARY TABLE

Assessment Component	Section(s)	Recommended Actions	Estimated Cost
Historical Review	5.3, 5.4 & 5.5	No Further Action	
Current Occupants / Operations	3.3	No Further Action	
Hazardous Substances / Petroleum Products	7.2	No Further Action	
Drains, Sumps & Storm Water Drywells	7.2	No Further Action	
Storage Tanks	7.2	No Further Action	
PCBs	7.2	Removal of three (3) out-of service hydraulic lifts	TDB
Regulatory Agency / Database Review	5.1	Deferred Action	TBD
Asbestos Containing Materials	9.1	Deferred Action	
Lead Based Paint	9.2	Deferred Action	
Lead in Drinking Water	9.3	No Further Action	
Radon	9.4	No Further Action	
Mold	9.5	No Further Action	
Wetlands	9.6	No Further Action	

2.0 INTRODUCTION

2.1 Purpose

MEI has performed a Phase I Environmental Site Assessment (Phase I ESA) of property located at 224-01 Merrick Boulevard in Jamaica, New York (Subject Property). The purpose of this Phase I Environmental Site Assessment (Phase I ESA) is to investigate and identify recognized environmental conditions associated with the Subject Property and/or surrounding property. Recognized environmental conditions, as defined in the ASTM Standard Practice E 1527-05, including the following:

The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

For the purpose of this Phase I ESA, *recognized environmental conditions (REC's),* may also include the presence or likely presence of other conditions as noted in the Scope of Services.

2.2 Scope of Services

This ESA was conducted utilizing a standard of good commercial and customary practice that was consistent with the ASTM Practice E 1527-05. Any significant scope-of-work additions, deletions or deviations to ASTM Practice E 1527-05 are noted below or in the corresponding sections of this report. The scope-of-work for this assessment included an evaluation of the following:

- Physical characteristics of the Subject Property through a review of referenced sources for topographic, geologic, soils and hydrologic data.
- Subject Property history through a review of referenced sources such as land deeds, fire insurance maps, city directories, aerial photographs, prior reports, and interviews.
- Current Subject Property conditions, including observations and interviews regarding the following: the presence or absence of hazardous substances or petroleum products; generation, treatment, storage, or disposal of hazardous, regulated, or biomedical waste; equipment that utilizes oils which potentially contain PCBs; and storage tanks (aboveground and underground).
- Usage of surrounding area properties and the likelihood for releases of hazardous substances and petroleum products (if known and/or suspected) to migrate onto the Subject Property.
- Information in referenced environmental agency databases and local environmental records, within specified minimum search distances.
- Past ownership through a review of available prior reports and local municipal file review.
  The scope-of-work also included consideration of the following potential environmental conditions that are outside the scope of ASTM Practice E 1527-05: asbestos-containing materials (ACM), lead-based paint (LBP), lead in drinking water, radon, mold, and wetlands.

2.3 Assumptions and Limitations

There is a possibility that even with the proper application of these methodologies there may exist on the Subject Property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. MEI believes that the information obtained from the record review and the interviews concerning the Subject Property is reliable. However, MEI cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The methodologies of this assessment are not intended to produce all inclusive or comprehensive results, but rather to provide the User with information relating to the Subject Property.

The findings, opinions and conclusions of this report contain the limitations inherent in these methodologies that are referred to in ASTM E 1527-05. Specific limitations and exceptions to this ESA are set forth below:

Historical and environmental information pertaining to the Subject Property has been included in this report to the extent that such information is "reasonably ascertainable" as defined in the above-referenced standard practice and in accordance with the project specific timeframes.

MEI reviewed an environmental database search report. MEI's conclusions based on the search report are limited to the accuracy of that report. To the extent possible, MEI's field observations are used to verify the information or identify errors and inconsistencies in the search report regarding the listed facilities in the immediate vicinity of the Subject Property.

With respect to conditions outside the scope of the ASTM Standard, MEI's observations are limited to physical observations and a review of published data. Unless otherwise stated, no sampling for Asbestos Containing Materials, Lead Based Paint, Drinking Water, Radon, Mold or Wetlands was conducted.

2.4 Special Terms and Conditions

This Phase I Environmental Site Assessment (the report) has been prepared to assist GCP Capital Group, LLC. in its underwriting of a proposed mortgage loan or financing on the Subject Property. This report can be relied upon by only the parties stated in the transmittal letter at the front of this report. MEI's liability to a purchaser wishing to use this report is limited to the cost of the report. Amendments to MEI's limitations as stated herein that may occur after issuance of the report are considered to be included in this report. Payment for the report is made by, and MEI's contract and report extends to GCP Capital Group, LLC. only, in accordance with MEI Terms and Condition and the MEI Scope of Work.

2.5 Data Gaps

Any data gaps identified herein, as defined by ASTM Practice E 1527-05 § 3.2.20, are not considered to have significantly affected the ability to identify recognized environmental conditions in connection with the Subject Property and do not alter the conclusions of this report.

3.0 SITE DESCRIPTION

3.1 Ownership and Location

According to the Automated City Register Information System (ACRIS) operated by the New York City Department of Finance identified the Subject Property as Block 12963 Lot 308 and the property is owned by Business Kimstrauss Unitary LLC.

The property is located at 224-01 Merrick Boulevard in Jamaica, NY. MEI did not identify any prior owners or occupants of potential environmental concern in the property records obtained from the NYC Department of Finance.

3.2 Improvements

The Subject Property includes a square-shaped parcel totaling approximately 0.23 acres. The Subject Property is currently improved with one (1) commercial building. The building is 7,100 square feet in size and has one (1) floor and no basement. The Subject Property is currently improved with one (1) commercial building. The building is 7,100 square feet in size and has one (1) floor and no basement.
A review of the New York City Building Department property profile overview indicated that the building was constructed in 1945. The building and a concrete paved loading area on the north side of the building occupies the majority of the parcel with minimal areas of exposed grounds or landscaped areas bordered by municipal walkways and right-of-ways.

3.3 Current Use of the Subject Property

At the time of inspection, the building on the Subject Property was vacant and was formerly utilized as an auto parts store and small repair area.

3.4 Services, Utilities and Roadways

Street Address(es): 224-01 Merrick Boulevard

City and State: Jamaica, New York

County: Queens

Owner: Business Kimstrauss Unitary LLC

Property Size: 0.23 acres

Access Roadway to site: Merrick Boulevard to the west of the Subject Property

Site Use: One (1) single story commercial building

Occupants: None (the building is presently vacant)

Electricity Provider: Consolidated Edison

Natural Gas Provider: Consolidated Edison

Fuel Oil Provider: N/A

Potable Water: Municipal Water Supply

Sewer Services: Municipal Sewer System

Heating System: The building is presently heated by natural gas fired heating system and there were overhead duct heating units in the office areas and overhead heaters in the repair areas.

3.5 Adjoining Properties

The current use of the adjoining properties is residential and commercial. The Subject Property borders are as follows:

North - The property is bordered to the north by a house.

South - The property is bordered to the south Merrick Boulevard and Merrick Boulevard and a transmission repair facility.

East - The property is bordered to the east by a restaurant.

West - The property is bordered to the west by 224th Street and a truck lot.

4.0 USER PROVIDED INFORMATION

4.1 Environmental Pre-Survey Questionnaire

Pursuant to ASTM E 1527-05, MEI requested the following site information from the User of this report and from the site contact. The following section summarizes information provided by GCP Capital Group, LLC. with regard to this Phase I Environmental Site Assessment.

ITEM	PROVIDED BY USER	NOT PROVIDED BY USER	DISCUSSED BELOW	DOES NOT APPLY
4.1 Environmental Pre-survey Questionnaire		X		
4.2 Title Records		X		
4.3 Environmental Liens or Activity and Use Limitation		X		
4.4 Specialized Knowledge		X		
4.5 Commonly Known or Reasonably Ascertainable Information		X		
4.6 Valuation Reduction for Environmental Issues		X		
4.7 Identification of Key Site Manager		X		
4.8 Reason for Performing Phase 1 ESA	X			
4.9 Prior Environmental Reports		X		

4.2 Title Records

Title record information associated with the Subject Property has not been provided to MEI by GCP Capital Group, LLC.. Land title records provide information on previous ownership of a property. Typically, deeds signifying transfer of a land parcel are recorded in county files and can be researched to determine the identity of past owners. A "chain of title" is a continuous record of ownership for a specific parcel. A 50-year chain of title search was not included in the scope of work for this assessment.

4.3 Environmental Liens or Activity and Use Limitation

The property owner/user/key site personnel did not report any Environmental Liens or Activity/Use Limitations on the site. An environmental lien search was not included in the scope of work of this assessment and therefore was not performed. However, if the findings of a lien search performed by any other party does reveal the presence of an environmental related lien on the subject property, this information should be forwarded to MEI for review, and any significant findings will be added to this assessment as an addendum to this report.

4.4 Specialized Knowledge

GCP Capital Group, LLC. provided no specialized knowledge that is material to recognized environmental conditions in connection with the Subject Property. MEI was not provided with or made aware of previous environmental assessments or other documentation that is material to recognized environmental conditions in connection with the Subject Property, except as presented in Section 4.3 of this report.

4.5 Commonly Known or Reasonably Ascertainable Information

GCP Capital Group, LLC. have provided no commonly known or reasonably ascertainable information within the local community about the Subject Property that is material to recognized environmental conditions in connection with the Subject Property.

4.6 Valuation Reduction for Environmental Issues

GCP Capital Group, LLC. have provided no information regarding valuation reduction for environmental issues in connection with the Subject Property.

4.7 Identification of Key Site Manager

GCP Capital Group, LLC. provided contact information for the Subject Property owner, manager and/or occupants. The Contact person for site access was Mr. David Koptiev.

4.8 Reason for Performing Phase I ESA Report

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E-1527-05) in connection with the Subject Property. This ESA was also performed to permit the User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "landowner liability protections," or "LLPs"). ASTM Standard E-1527-05 constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

4.9 Prior Environmental Reports

MEI did not review and previous Phase I ESA reports regarding the Subject Property.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

Information from standard Federal and state environmental record sources was provided through FirstSearch Technology Corporation (FirstSearch). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. This integrated database also contains postal service data in order to enhance address matching. Records from one government source are compared to records from another to clarify any address ambiguities. The demographic and geographic information available provides assistance in identifying and managing risk. The accuracy of the geocoded locations is approximately +/-300 feet.

In some cases, location information supplied by the regulatory agencies is insufficient to allow the database companies to geocode facility locations. These facilities are listed under the unmappables section within the FirstSearch report. A review of the unmappable facilities indicated that none of these facilities are within the ASTM minimum search distance from the Site.

Regulatory information from the following database sources regarding possible recognized environmental conditions, within the ASTM minimum search distance from the Site, was reviewed. Specific facilities are discussed below if determined likely that a potential recognized environmental condition has resulted at the Site from the listed facilities (see appendix 12.5 for Environmental Database Report).

The following table provides a summary of the findings of the environmental database report. Specific properties identified within the database report are further discussed below.

SUMMARY OF FEDERAL, STATE, AND TRIBAL AGENCY DATABASE FINDINGS			
Regulatory Database	**Approximate Minimum Search Distance**	**Subject Property Listed**	**Off-site Listings Within Search Distance**
Federal NPL Sites	1.0 mile	No	0
Federal Delisted NPL Sites	0.5 mile	No	0
Federal CERCLIS Sites	0.5 mile	No	0
Federal CERCLIS NFRAP Sites	0.5 mile	No	0
Federal RCRA CORRACTS Sites	1.0 mile	No	0
Federal RCRA Generators Sites	Property & Adjoining	Yes	0
Federal RCRA Non-CORRACTS TSD Sites	0.5 mile	No	0
Federal Engineering / Institutional Control Sites	Property & Adjoining	No	0
Federal ERNS Sites	Subject Property	No	0
State and Tribal equivalent NPL Sites	1.0 mile	No	0
State and Tribal equivalent CERCLIS Sites	0.5 mile	No	0
State and Tribal Leaking Storage Tank Sites	0.5 mile	No	13
State and Tribal Spills Sites	Subject Property	No	2
State and Tribal Landfill or Solid Waste Disposal Sites	0.5 mile	No	0
State and Tribal Registered Storage Tank Sites	Property & Adjoining	Yes	1
State and Tribal Engineering / Institutional Control Sites	Property & Adjoining	Yes	0
State and Tribal Voluntary Cleanup Sites	0.5 mile	No	0
State and Tribal Brownfield Sites	0.5 mile	No	0

- ***Federal National Priority List (NPL) Sites***

The National Priorities List (NPL) is the Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program. The Subject Property is not listed as a Federal NPL site. No Federal NPL sites are located within a mile radius of the Subject Property.

- ***Federal Delisted National Priority List (NPL) Sites***

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate. The Subject Property is not listed as a Federal Delisted NPL site. No Federal Delisted NPL sites are located within a mile radius of the Subject Property.

- ***Federal CERCLIS Sites***

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances. The Subject Property is not listed as a Federal CERCLIS site. No Federal CERCLIS sites are listed within a half mile radius of the Subject Property.

- ***Federal CERCLIS NFRAP Sites***

The CERCLIS No Further Remedial Action Planned (NFRAP) List is a compilation of sites that the EPA has investigated, and has determined that the facility does not pose a threat to human health or the environment. The Subject Property is not listed as a Federal CERCLIS-NFRAP site. There were no Federal CERCLIS NFRAP sites listed within a half mile radius of the Subject Property.

- ***Federal RCRA CORRACTS Sites***

RCRA Corrective Action Tracking System (CORRACTS) is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information regarding sites that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. The RCRA-CORRACTS database identifies Transportation, Storage or Disposal (TSD), facilities that have conducted, or are currently conducting, corrective action(s) as regulated under RCRA. The Subject Property was not identified on the RCRA CORRACTS site list. There were no RCRA CORRACTS sites within a mile radius of the Subject Property.

- ***Federal RCRA Hazardous Waste Generators Sites***

Hazardous waste generators tracked under the Resource Conservation and Recovery Act (RCRA) are classified as either Large Quantity Generators (LQGs), Small Quantity Generators (SQGs), or Conditionally Exempt Small Quantity Generators (CESQGs). A RCRA-LQG is a facility that generates over 1,000 kilograms (Kg) of hazardous waste. A RCRA-SQG is a facility that generates between 100 Kg and 1,000 Kg of hazardous waste per month while a RCRA-CESQG generates less than 100 Kg of hazardous waste per month. The Subject Property is listed as a Federal RCRA Hazardous Waste Generator site (R&S Strauss). There were no RCRA violations noted for this facility. The property to the south of the Subject Property was also identified as a Federal RCRA Hazardous Waste Generator (Het Auto Repair). There were no RCRA violations noted for this facility.

- ***Federal RCRA non-CORRACTS TSD Sites***

RCRA non-CORRACTS Treatment, Storage and/or Disposal (TSD) sites are required to register hazardous waste activity under the Resource Conservation and Recovery Act (RCRA). The Subject Property is not listed as a Federal RCRA non-CORRACTS TSD site. The Subject Property is not listed as a Federal RCRA non-CORRACTS TSD Site. There were no Federal RCRA non-CORRACTS TSD sites within a mile radius of the Subject Property.

- ***Federal Engineering Control / Institutional Control Sites***

The completion of site cleanup activities may include the implementation of engineering controls or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. Neither the Subject Property nor any of the surrounding properties were listed as a Federal Engineering Control or Institutional Control Site.

- ***Federal Emergency Response Notification System (ERNS) Sites***

ERNS is a national database used to collect information regarding reported releases of petroleum products and/or hazardous substances. The database contains information from spill reports submitted to Federal agencies, including the EPA, the U.S. Coast Guard, the National Response Center, and the U.S. Department of Transportation. A review of this database was conducted in order to determine whether any spills or incidents involving releases of hazardous substances or petroleum products have occurred at the Subject Property. The Subject Property is not listed as a Federal ERNS site.

- ***State and Tribal equivalent NPL Sites***

State and Tribal equivalent NPL databases were searched for sites located within 1.0 mile of the Subject Property. The Subject Property is not listed as a State and Tribal equivalent NPL Site. There were no State and Tribal equivalent NPL Sites within a mile radius of the Subject Property.

- ***State and Tribal equivalent CERCLIS Sites***

State and Tribal equivalent CERCLIS databases were searched for sites located within 0.5 mile of the Subject Property. The Subject Property is not listed as a State and Tribal equivalent CERCLIS Site. There were no State and Tribal equivalent CERCLIS Sites within a half mile radius of the Subject Property.

- ***State and Tribal Leaking Storage Tank Sites***

Leaking Storage Tank Sites are properties where releases of hazardous substances or petroleum products from underground storage tanks (USTs) and/or aboveground storage tanks (ASTs) have been identified and reported to state, tribal, or local agencies.

The Subject Property is not listed as a State and Tribal Leaking Storage Tank site. However, 13 sites located within 0.5 mile of the Subject Property were identified as State and Tribal Leaking Storage Tank Sites. All of the 13 listed sites are located greater than 0.125 mile from the Subject Property and based on the distance from the Subject Property and the dense urban environment surrounding the Subject Property, these sites are considered unlikely to represent an existing release, past release or material threat of release of hazardous substances or petroleum products on the Subject Property.

- ***State and Tribal Spills Sites***

A review of the State and Tribal Spills database was conducted in order to determine whether any spills or incidents involving releases of hazardous substances or petroleum products have occurred at the Subject Property. The Subject Property is not listed as a State and Tribal Spills site.

- ***State and Tribal Landfill Sites and Solid Waste Disposal Sites***

The State and Tribal landfill and solid waste disposal site databases identify active or inactive landfill and transfer station facilities, as well as open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. The Subject Property is not listed as a State and Tribal landfill and solid waste disposal site. There were no State and Tribal landfill and solid waste disposal sites within a half mile radius of the Subject Property.

- ***State and Tribal Registered Storage Tank Sites***

The Subject Property is listed as a State and Tribal Registered Storage Tank site. A review of the New York State Department of Environmental Conservation (NYSDEC), Underground Storage Tank database indicated that there was one (1) 1,000 gallon underground waste oil storage tank that was removed from the Subject Property on February 1, 2003. Although there was no tank report available for review, a review of the NYSDEC Spill Information Systems Database did not indicate the presence of any spill incidents pertaining to this removal project. The property to the south of the Subject Property (Het Auto Repair), was also identified as a State and Tribal Registered Storage Tank site due to the presence of gasoline and waste oil storage tanks on this property.

- ***State and Tribal Engineering Control / Institutional Control Sites***

The completion of site cleanup activities may include the implementation of engineering controls or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. The Subject Property was listed as a State Engineering Control or Institutional Control Site. A review of the New York City Building Department property profile overview indicated that the Subject Property has an E restriction of Hazmat/Noise. It is recommended that the property owner submit all documentation associated with this designation to the New York City Office of Environmental Remediation (NYCOER), in order to determine the requirements for addressing the E designation assigned to the Subject Property prior to any planned construction activities.

- ***State and Tribal Voluntary Cleanup Sites***

The Subject Property is not listed as a State and Tribal Voluntary Cleanup site. There were no State and Tribal Voluntary Cleanup Sites listed within 0.5 mile of the Subject Property.

- ***State and Tribal Brownfield Sites***

The Subject Property is not listed as a State and Tribal Brownfield site. There were no State and Tribal Voluntary Cleanup Sites listed within 0.5 mile of the Subject Property.

5.2 Local Regulatory Agency Records

Local municipal offices consulted during the completion of this assessment included the New York City Building Department, the New York City Department of Finance and the New York City Fire Department. MEI did not identify documented adverse environmental conditions, violations, or complaints associated with the Subject Property in the information provided by these agencies. Similarly, MEI did not identify records of spills or releases of hazardous substances or petroleum products having occurred at the Subject Property in the information provided by these agencies.

New York City Building Department

MEI reviewed information listed in the online NYC Building Information System (BIS) provided by the New York City Building Department's website, http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp. According to information viewed on the New York City Building Department's website, a variety of interior renovations, building improvements and system upgrades have occurred throughout its history, which is not uncommon for a property of this age and type. A review of the New York City Building Department property profile overview indicated that the building was constructed in 1945. Copies of the New York City Building Department records are presented in Appendix 12.4.

New York City Department of Finance

MEI reviewed information provided by the New York City Department of Finance. Specific information provided by the New York City Department of Finance includes lot sizes and dimensions, building sizes, building zoning and use, and the approximate date of construction. The information provided by New York City Department of Finance did not identify any conditions or reported events that would indicate the presence of a recognized environmental condition in connection with the Subject Property. Copies of the New York City Department of Finance records are presented in Appendix 12.4.

New York City Fire Department

MEI reviewed information provided by the New York City Fire Department (NYCFD). Specific information obtained from the NYCFD includes any active and/or voided storage tank permits for the Subject Property. A review of the NYCFD storage tank files indicated that there were no permits for any active storage tanks on the Subject Property. It should be noted that a Freedom of Information Request was submitted to the NYCFD in order to determine the presence of any past or "voided" tank accounts on file with the NYCFD. To date, no response has been received. Any information regarding past or "voided" accounts will be submitted upon receipt from the NYCFD.

5.3 Sanborn Fire Insurance Maps

Historical fire insurance maps depicting the Subject Property were reviewed and are summarized in the following table. Copies of the fire insurance maps are presented in Appendix 12.6.

	FIRE INSURANCE MAP SUMMARY	
Year	**Issues Noted**	**Observations**
1926	**No**	**Subject Property: The 1926 Sanborn Map shows the Subject Property as vacant land.**
		Surrounding Area: The 1926 Sanborn Map shows the presence of vacant land on all sides of the Subject Property.
1949	**No**	**Subject Property: The 1949 Sanborn Map shows the presence of the existing building on the Subject Property (auto sales and service facility).**
		Surrounding Area: The 1949 Sanborn Map shows the presence of a house to the north of the Subject Property, vacant land to the south of the Subject Property, a retail building to the east of the Subject Property and a small commercial building to the west of the Subject Property.
1982	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1949 Sanborn Map.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1949 Sanborn Map with the exception that a large commercial building has been constructed to the west of the Subject Property and a gasoline station has been constructed to the south of the Subject Property.
1989	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1982 Sanborn Map.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1982 Sanborn Map.

5.4 Aerial Photographs

Historical aerial photographs may be used to evaluate changes in land use and to identify visible areas of potential environmental concern. A search for historical aerial photographs depicting the Subject Property and vicinity was conducted by researching available historical aerial photographs from www.historicaerials.com and other available resources. Aerial photographs depicting the Subject Property were reviewed and are summarized in the following table.

	AERIAL PHOTOGRAPH SUMMARY	
Year	**Issues Noted**	**Observations**
1951	**No**	**Subject Property: The 1951 photograph shows the presence of the existing building on the Subject Property.**
		Surrounding Area: The 1954 photograph shows the presence of commercial buildings to the south, east and west of the Subject Property and houses to the north of the Subject Property.
1966	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1954 photograph.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1954 photograph.
1980	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1966 photograph.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1966 photograph.
1996	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1980 photograph.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1980 photograph.
2004	**No**	**Subject Property: Conditions on the Subject Property appear to be similar to those depicted on the 1980 photograph.**
		Surrounding Area: Conditions on the surrounding properties appear to be similar to those depicted on the 1980 photograph.

5.5 City Directories

Street directories are commercial publications containing names and addresses, and in many cases, occupations of the occupants of a particular community. The directories may also contain information pertaining to business processes conducted within a community. A search for historical street directories was conducted by MEI and FirstSearch Technology Corporation (FirstSearch). Historical street directories were reviewed and are summarized in the following table. Copies of the street directories are presented in Appendix 12.6.

Year	Occupants
1935	No listing
1945	Geffner Motors
1955	Geffner Motors
1965	Laurel Motors
1975	Laurel Motors
1985	R&S Strauss
1992	R&S Strauss
1998	Strauss Discount Auto
2003	Strauss Discount Auto
2008	R&S Strauss

6.0 PHYSICAL SETTING

6.1 Topography

The Subject Property and vicinity characteristics listed below were analyzed utilizing a current USGS 7.5 Minute Topographic Map. This information is useful in determining the grade and topography of the Subject Property. The Subject Property is located at an elevation of approximately 25 feet above mean sea level (msl). The topography of the Subject Property is relatively flat and there were no slopes, depressions or rolling hills observed on the Subject Property and slopes on the Subject Property range from 0 to 3 percent. The Subject Property has been graded for commercial usage.

6.2 Geology and Soils

No bedrock outcroppings were observed at the Subject Property. Near-surface geology in heavily developed areas such as the Subject Property and vicinity is considered "urban land" and is characterized by a non-homogeneous distribution of soil and fill types. Excavation and backfilling for building foundations, utility conduits, subway systems and other construction results in a varied subsurface profile. In this setting, estimation of local subsurface parameters such as permeability, moisture content, and organic fraction is not feasible without site-specific testing data.

6.3 Hydrogeology and Hydrology

No natural surface water bodies were identified on or adjacent to the Subject Property. The nearest surface water body is Brookville Park Creek.

Local groundwater gradient is expected to follow surface topography; therefore, groundwater flow near the Subject Property is expected to flow to the southeast. Groundwater depths and flow gradients are best evaluated by a subsurface investigation involving the installation of at least three groundwater monitoring wells and precise measurements of hydrostatic pressure. Monitoring wells were not observed on the Subject Property.

7.0 SUBJECT PROPERTY RECONNAISSANCE

The Subject Property reconnaissance was conducted by Mr. Donald J. Middleton Jr. President of MEI on February 4, 2012. Mr. Middleton was accompanied by and interviewed the potential purchaser.

7.1 Methodology and Limited Conditions

The Subject Property reconnaissance consisted of visual and/or physical observations of the Subject Property and improvements, adjoining properties as viewed from the Subject Property boundaries, and the surrounding area based on visual observations made from adjacent public thoroughfares. Building exteriors were observed along the perimeter from the ground, unless described otherwise. The entire building was accessible during the site inspection.

7.2 Physical Observations

Underground Storage Tanks

MEI did not observe any fill ports or vent pipes for any underground storage tanks on the Subject Property. A review of the New York City Fire Department (NYCFD), storage tank files did not indicate the presence of any registered underground storage tanks at the Subject Property. However, a review of the New York State Department of Environmental Conservation (NYSDEC), Underground Storage Tank database indicated that there was one (1) 1,000 gallon underground waste oil storage tank that was removed from the Subject Property on February 1, 2003. Although there was no tank report available for review, a review of the NYSDEC Spill Information Systems Database did not indicate the presence of any spill incidents pertaining to this removal project. A review of available Sanborn Fire Insurance Maps did not indicate the presence of any buried tanks on the Subject Property.

Aboveground Storage Tanks

MEI did not observe any aboveground storage tanks on the Subject Property.

Hazardous Substances and Petroleum Products

MEI did not observe the presence of any hazardous substances or petroleum products on the Subject Property.

Non-Hazardous Substances and Petroleum Products

MEI did not observe any non-hazardous substances or petroleum products at the Subject Property.

Unidentified Substances Containers

MEI did not observe any unidentified substances containers at the Subject Property.

Drains or Storm Water Drywells

MEI observed the presence of three (3) floor drains inside the building that did not show any signs of chemical or petroleum staining. It was reported that these drains lead to the municipal sewer system and not to an on-site cesspool or drywell. There were no storm water drywells observed on the Subject Property.

Polychlorinated Biphenyls (PCB's)

Polychlorinated biphenyls (PCBs) are a chemical component of many dielectric fluids, heat transfer fluids, hydraulic fluids, lubricating oils, paints, or coatings manufactured prior to July 2, 1979 before being banned by Congress. Equipment that may potentially contain PCBs includes electrical equipment such as transformers or capacitors or hydraulically operated equipment, such as elevators, compaction equipment, or manufacturing equipment. MEI observed three (3) out-of-service hydraulic lifts inside the repair shop area. It was reported that the building is to be demolished in the near future. It is recommended that as part of any planned demolition or renovation activities that these lifts be properly removed and disposed.

Stains or Corrosion

MEI did not observe any signs of staining or corrosion at the Subject Property.

Odors

MEI did not observe any strong, pungent or noxious odors at the Subject Property.

Pools of Liquid

MEI did not observe any pools of liquid at the Subject Property.

Stressed Vegetation

MEI did not observe any stressed vegetation at the Subject Property.

Stained Soil or Pavement

MEI did not observe any stained soil or pavement at the Subject Property.

Wells

MEI did not observe any irrigation wells or groundwater monitoring wells at the Subject Property.

Sumps, Pits, Ponds or Lagoons

MEI did not observe any sumps, pits, ponds or lagoons at the Subject Property.

Waste Water

MEI did not observe any improper disposal of waste water into drains, ditches or streams at the Subject Property.

Solid Wastes Disposal

All solid wastes generated on-site are carted away by a licensed waste hauler to an approved solid waste facility and are not disposed at on-site.

8.0 INTERVIEWS

8.1 Interview With Property Owner and/or Property Manager

The potential purchaser was interviewed during the site reconnaissance on February 4, 2012. The potential purchaser did not indicate the presence of any environmental liens or was unaware of any contamination concerns regarding the Subject Property.

9.0 CONDITIONS OUTSIDE THE SCOPE OF ASTM PRACTICE E 1527-05

9.1 Asbestos Containing Material (ACM)

Asbestos is a term used to describe a group of six naturally occurring crystalline fiber minerals. Asbestos has excellent thermal stability, a high degree of tensile strength, and has been used extensively in the textile, insulation, and building industries, particularly as a component in fireproofing, decorative coatings, insulation materials, and as reinforcement for plaster binders in building products. Asbestos-containing building materials are generally classified as friable or non-friable. Friable ACM are those which can be crumbled, pulverized, or reduced to powder by hand pressure, or by normal use or maintenance can be expected to emit asbestos fibers into the air. Non-friable ACM is a potential concern if it is damaged by maintenance work, demolition, or other activities, at which time it may be considered friable.

It should be noted that the limited visual screening survey conducted under the scope of work for this assessment does not constitute a full asbestos inspection, in which all areas of the buildings would have been thoroughly surveyed and sampled. MEI did not observe any signs of ACM on any of the overhead heating units or any of the overhead pipes inside the building. MEI did not observe any signs of ACM spray-on fireproofing inside the building. However, MEI observed the presence of ACM floor tiles in the retail area. It is recommended that a sample of these tiles be analyzed for asbestos content prior to any planned renovation or demolition activities.

9.2 Lead Based Paint (LBP)

Use of lead in household paint was banned by the U.S. Environmental Protection Agency (EPA) effective January I, 1978. The EPA and the U.S. Department of Housing and Urban Development (HUD) consider lead-based paint as containing a lead concentration equal to or greater than 1.0 milligram per square centimeter (mg/cm') or 0.5% lead by weight, as defined by Title X of the 1992 Housing and Community Development Act.

MEI observed that the painted surfaces inside the building were in fair condition. However, there were signs of peeling and flaking paint observed in the retail areas and it is recommended that any area where peeling or flaking paint is encountered be repaired and repainted.

9.3 Lead in Drinking Water

Lead has historically been used in pipes, solder, and brass fixtures used in water distribution systems and building plumbing systems. In 1986, the USEPA banned the use of lead at concentrations exceeding 0.2% lead in solder and 8% lead in other plumbing materials. Lead in drinking water results primarily from corrosion of lead containing materials in service lines or from corrosion of lead containing materials in building plumbing such as lead solder, brass, bronze, and other lead containing alloys. The USEPA Action Level for lead in public drinking water supplies is 0.015 parts per million (ppm) or 0.015 milligrams per liter (mg/L). MEI did not observe any brass fixtures or lead fixtures at the Subject Property.

The New York City Department of Environmental Protection Water Supply Division provides potable water to the building. Potable drinking water used in the system is obtained from groundwater wells and various lakes and reservoirs located in the Upstate New York area (Croton Reservoir). Based upon information supplied from the USEPA's Safe Drinking Water Information System (SDWIS), there is no indication that lead in drinking water is a concern at the Subject Property. In accordance with the scope of work for this assessment, MEI did not conduct lead-in-drinking water sampling at the Subject Property.

9.4 Radon

Radon is a colorless, odorless, radioactive gas. Radon comes from the natural decay of uranium that is found in nearly all soils. Radon typically moves through the ground and into building through cracks and openings in the foundation. The USEPA has developed a "Map of Radon Zones" indicating the levels of radon concentrations from testing and aerial surveys conducted in all counties in New York State. The U.S. Environmental Protection Agency's Map of Radon Zones identified the Subject Property as a radon zone Level 3. Level 3 signifies that the average predicted radon level indoors is less than 2 pico-Curies per liter and this is the lowest level in the state. This level compares favorably with the EPA action level of 4.0 pico-Curies per liter as the guideline (it should be noted that current radon information and EPA Action Levels are designated for residential spaces only. Commercial and industrial facilities are not subject to EPA's Action Level of 4 pico-Curies per liter as the guideline and definitive information concerning radon gas in an individual building can only be obtained through long term testing).

9.5 Mold

Molds are a class of fungi, and have been found to cause a variety of health problems in humans, including allergic, toxicological, and infectious responses. Molds are decomposers of organic materials, and thrive in humid environments. As such, interior areas of buildings characterized by poor ventilation and high humidity are the most common locations of mold growth. Building materials including drywall, wallpaper, baseboards, wood framing, insulation and carpeting often play host to such growth.

As part of this assessment, MEI performed a limited visual inspection for the conspicuous presence of mold. MEI observed the accessible interior areas of the Subject Property structure(s), including interior walls and ceilings of the building for the presence of conspicuous mold or observed water intrusion or accumulation. This evaluation did not include a review of pipe chases or areas behind enclosed walls and ceilings. MEI did not observe conspicuous visual or olfactory indications of the presence of mold inside the building. However, there were signs of water damaged ceiling tiles in the retail areas. It is recommended that any area where water damage is observed be repaired in order to prevent any potential mold concerns.

9.6 Wetlands

MEI reviewed available information regarding wetlands on the Subject Property, including National Wetlands Inventory online GIS mapping. MEI additionally made general site observations for readily observable potential wetland characteristics. MEI did not observe surface water bodies or any evidence of potential wetlands on or adjacent to the Subject Property.

10.0 FINDINGS, OPINIONS AND RECOMMENDATIONS

MEI has performed this Phase I Environmental Site Assessment of the Subject Property in conformance with the scope and limitations of ASTM Standard E 1527-05. This assessment has not identified evidence of recognized environmental conditions (RECs) in connection with the Subject Property.

The site reconnaissance, interviews and review of records have not found the presence or possible presence of hazardous substances or petroleum related products that could indicate an existing release, past release or significant threat of a release into structures on the property, into ground, groundwater or surface water.

However, MEI observed three (3) out-of-service hydraulic lifts inside the repair shop area. It was reported that the building is to be demolished in the near future. It is recommended that as part of any planned demolition or renovation activities that these lifts be properly removed and disposed.

Conditions outside of ASTM E 1527-05 that were identified in connection with the Subject Property were that MEI observed the presence of ACM floor tiles in the retail area. It is recommended that a sample of these tiles be analyzed for asbestos content prior to any planned renovation or demolition activities. Furthermore, MEI signs of peeling and flaking paint and water damaged ceilings in the retail areas. It is recommended that any area where peeling or flaking paint and water damage is encountered be repaired and repainted.

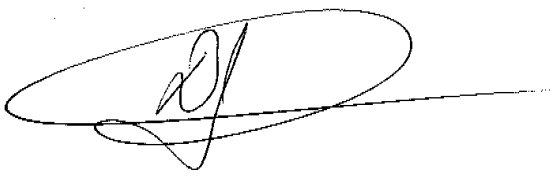
Lastly, A review of the New York City Building Department property profile overview indicated that the Subject Property has an E restriction of Hazmat/Noise. It is recommended that the property owner submit all documentation associated with this designation to the New York City Office of Environmental Remediation (NYCOER), in order to determine the requirements for addressing the E designation assigned to the Subject Property prior to any planned construction activities.

It is the opinion of MEI that no further testing (subsurface or otherwise), is warranted on the Subject Property.

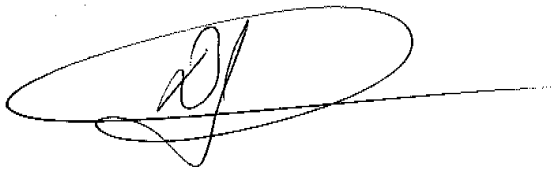
11.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

This Phase I Environmental Site Assessment (ESA) Report documents the research methodology used by qualified environmental professionals of MEI to identify recognized environmental conditions using the scope and limitations of ASTM Standard E 1527-05.

Middleton Environmental Incorporated



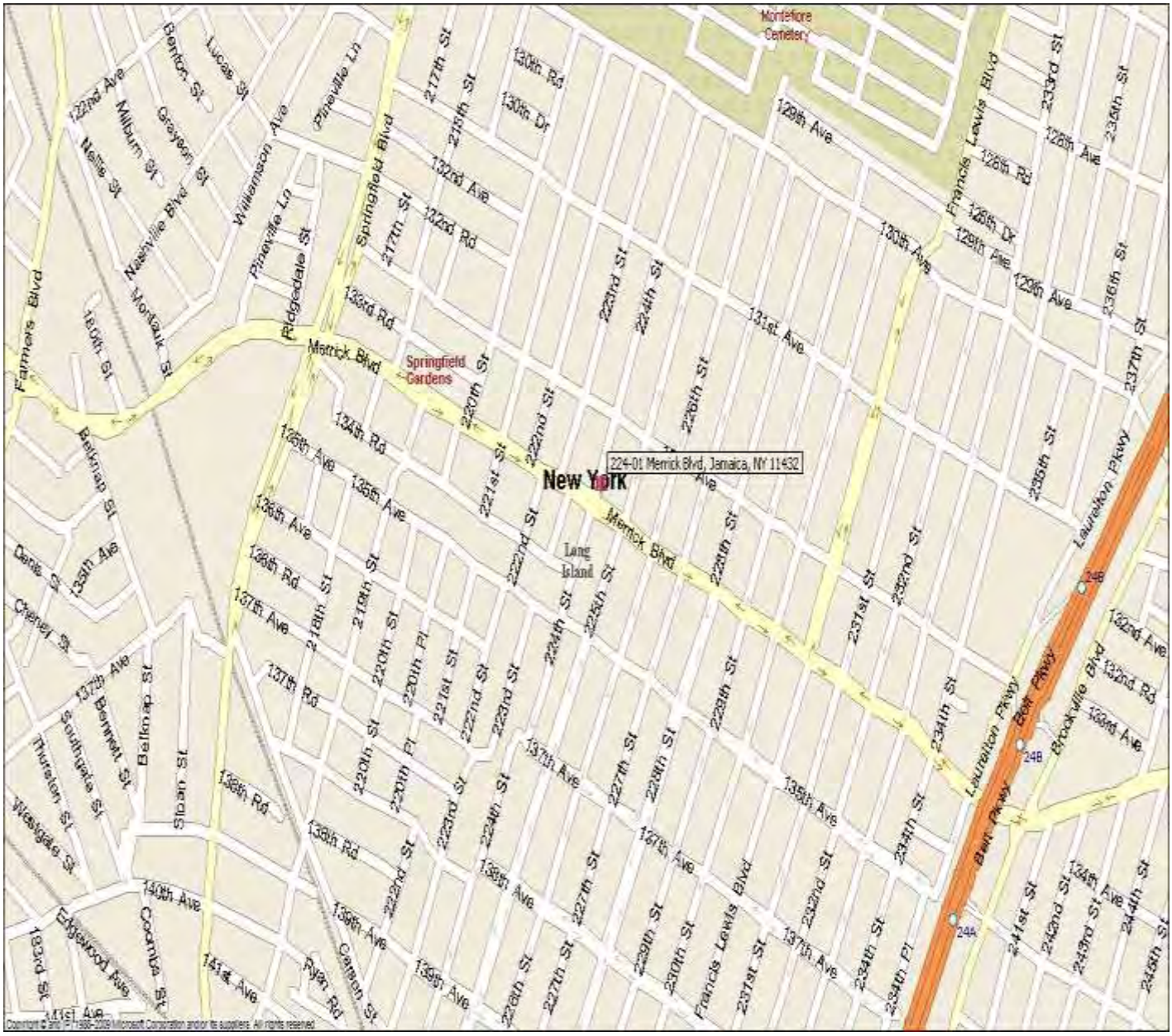
Prepared by: Donald J. Middleton Jr.
President



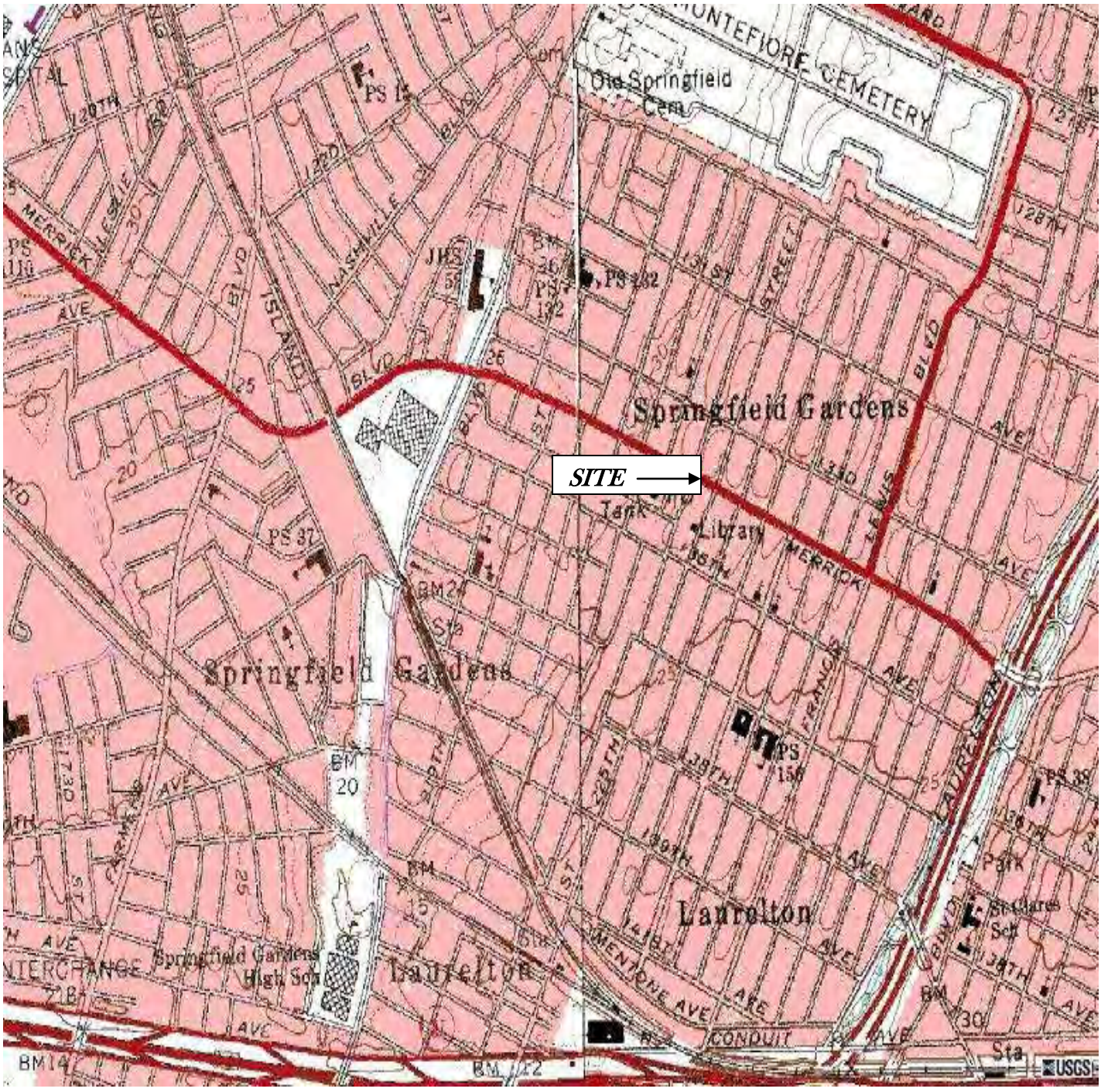
Reviewed by: Donald J. Middleton Jr.
President

12.0 APPENDIX

12.1. Site Map



12.2 USGS Topographic Map



12.3 Site Photographs

FORMER RETAIL AREA

WATER DAMAGED CEILING

HYDRAULIC LIFTS

FLOOR DRAIN IN SHOP AREA

OVERHEAD HEATING UNIT

FLOOR DRAIN IN RETAIL AREA

12.3 Site Photographs (Borders)

The current use of the adjoining properties is residential and commercial. The Subject Property borders are as follows:

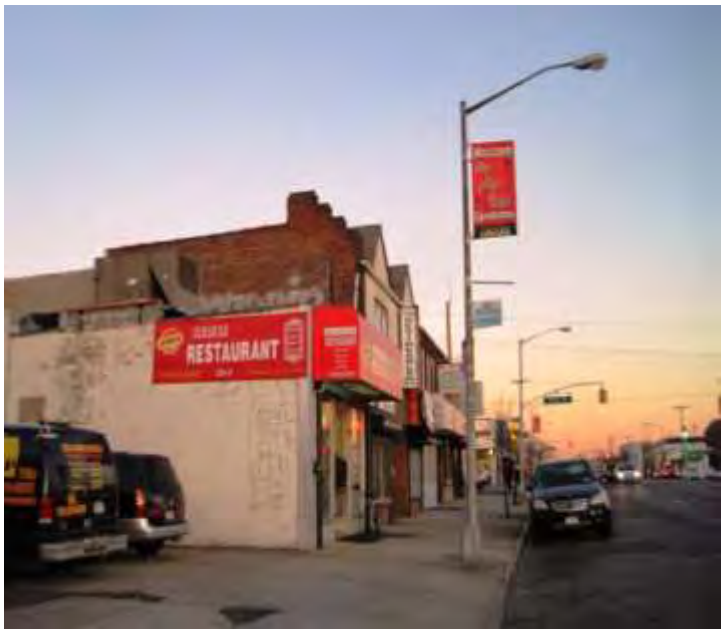
North - The property is bordered to the north by a house.

South - The property is bordered to the south Merrick Boulevard and Merrick Boulevard and a transmission repair facility.

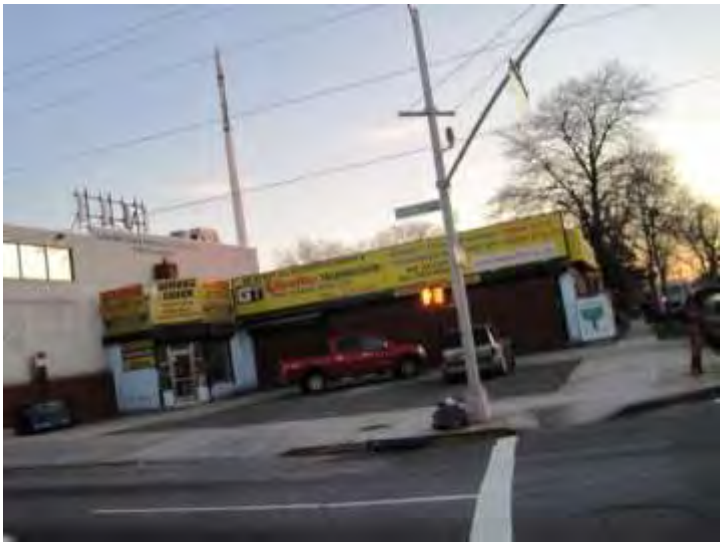
East - The property is bordered to the east by a restaurant.

West - The property is bordered to the west by 224th Street and a truck lot.

BORDER TO THE NORTH



BORDER TO THE EAST



BORDER TO THE EAST

BORDER TO THE WEST

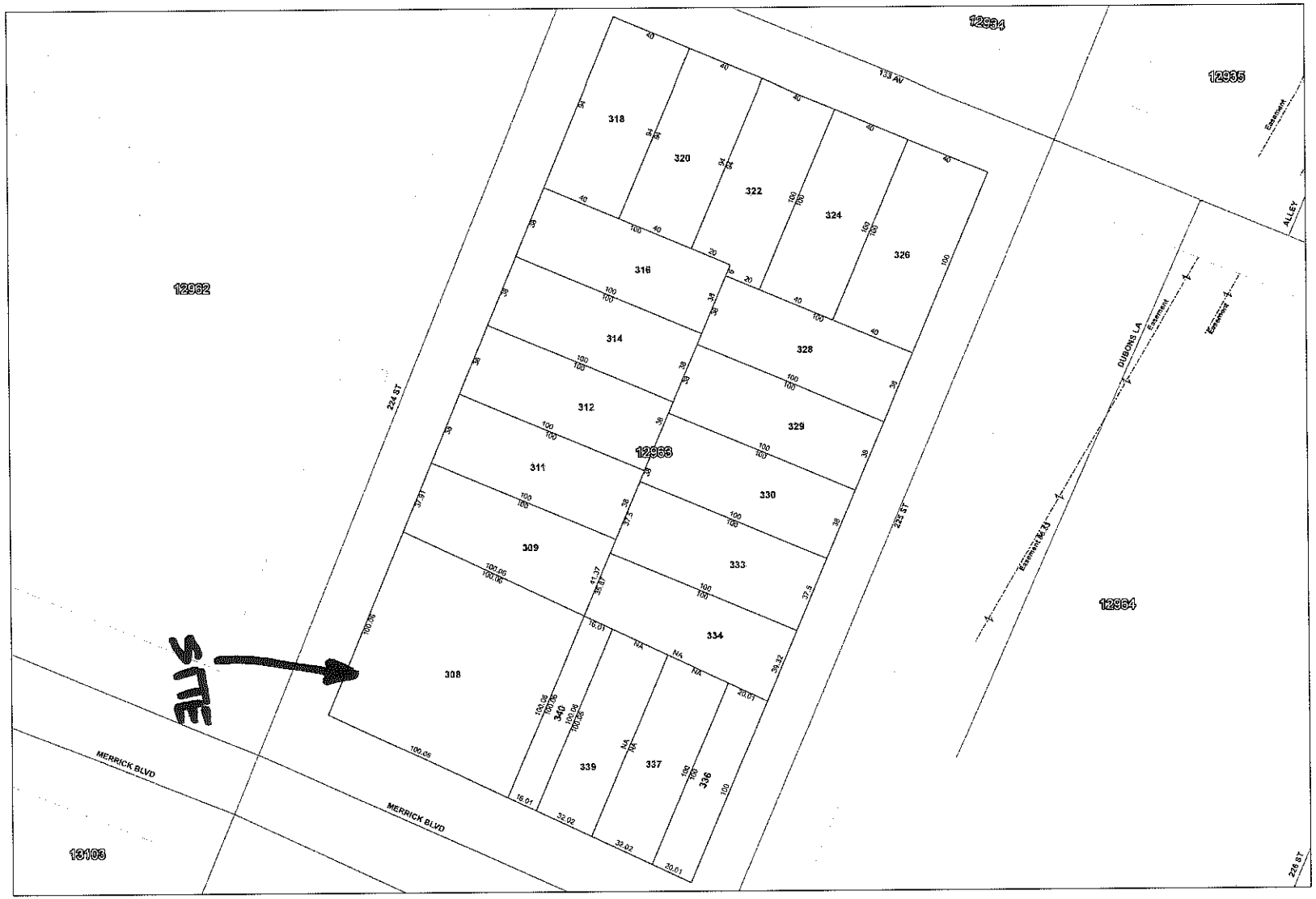
12.4 Department of Finance or Assessment Information and/or local Fire and Building Department Information

FINANCE
NEW ◦ YORK
MARTHA E. STARK
COMMISSIONER

NYC Digital Tax Map

Effective Date : 12-09-2008 09:48:22
End Date : Current

Queens Block: 12963



Legend

- Streets
- Miscellaneous Text
- Possession Hooks
- Boundary Lines
- Lot Face Possession Hooks
- Regular
- Underwater
- Tax Lot Polygon
- Condo Number
- Tax Block Polygon

Feet
0 7.5 15 22.5 30

Property Detail Report

For Property Located At

CoreLogic RealQuest Professional

22401 MERRICK BLVD, JAMAICA, NY 11413-2024

Owner Information:

Owner Name:	BUSINESS KIMSTRAUSS UNITARY		
Mailing Address:	22401 MERRICK BLVD, JAMAICA NY 11413-2024 C014		
Phone Number:		Vesting Codes:	/ / TR

Location Information:

Legal Description:			
County:	QUEENS, NY	APN:	12963-0308
Census Tract / Block:	630.00 / 2	Alternate APN:	
Township-Range-Sect:		Subdivision:	
Legal Book/Page:		Map Reference:	54-06-16 / 6927-D1
Legal Lot:	308	Tract #:	
Legal Block:	12963	School District:	3620580
Market Area:		Munic/Township:	LAURELTON
Neighbor Code:			

Owner Transfer Information:

Recording/Sale Date:	/	Deed Type:	
Sale Price:		1st Mtg Document #:	
Document #:			

Last Market Sale Information:

Recording/Sale Date:	01/03/2006 / 12/13/2005	1st Mtg Amount/Type:	/
Sale Price:	$1,487,000	1st Mtg Int. Rate/Type:	/
Sale Type:		1st Mtg Document #:	
Document #:	2258	2nd Mtg Amount/Type:	/
Deed Type:	DEED (REG)	2nd Mtg Int. Rate/Type:	/
Transfer Document #:		Price Per SqFt:	$209.44
New Construction:		Multi/Split Sale:	
Title Company:			
Lender:			
Seller Name:	SBCG STRAUSS LLC		

Prior Sale Information:

Prior Rec/Sale Date:	11/07/1988 / 10/28/1988	Prior Lender:	
Prior Sale Price:	$400,000	Prior 1st Mtg Amt/Type:	/
Prior Doc Number:	2710-569	Prior 1st Mtg Rate/Type:	/
Prior Deed Type:	DEED (REG)		

Property Characteristics:

Year Built / Eff:	1932 /	Total Rooms/Offices:		Garage Area:	
Gross Area:	7,100	Total Restrooms:		Garage Capacity:	
Building Area:	7,100	Roof Type:		Parking Spaces:	
Tot Adj Area:		Roof Material:		Heat Type:	
Above Grade:	6,800	Construction:		Air Cond:	
# of Stories:	1.00	Foundation:		Pool:	
Other Improvements:		Exterior wall:		Quality:	
		Basement Area:		Condition:	

Site Information:

Zoning:	R5D	Acres:	0.23	County Use:	STORE MISCELLANEOUS (K9)
Flood Zone:	X	Lot Area:	10,000	State Use:	
Flood Panel:	3604970068B	Lot Width/Depth:	100 x 100	Site Influence:	CORNER
Flood Panel Date:	05/21/2001	Commercial Units:	1	Sewer Type:	
Land Use:	STORE BUILDING	Building Class:	K9	Water Type:	

Tax Information:

Total Value:	$314,100	Assessed Year:	2011	Property Tax:	$30,908.92
Land Value:	$117,000	Improved %:	63%	Tax Area:	4
Improvement Value:	$197,100	Tax Year:	2011	Tax Exemption:	
Total Taxable Value:	$314,100				

NYC Buildings

NYC.gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

224-01 MERRICK BOULEVARD QUEENS 11413 BIN# 4279311

MERRICK BOULEVARD 224-01 - 224-09

Health Area	: 3531	Tax Block	: 12963
Census Tract	: 630	Tax Lot	: 308
Community Board	: 413	Condo	: NO
Buildings on Lot	: 1	Vacant	: NO

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | View Certificates of Occupancy

Cross Street(s):	224 STREET, 225 STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	HAZMAT/NOISE	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: UNKNOWN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: K9-STORE BUILDING

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	0	0
Violations-DOB	2	1
Violations-ECB (DOB)	0	0
Jobs/Filings	0	
ARA / LAA Jobs	1	
Total Jobs	1	
Actions	21	

OR Enter Action Type:

OR Select from List:

Select...

AND Show Actions

Elevator Records
Electrical Applications
Permits In-Process / Issued
Illuminated Signs Annual Permits
Plumbing Inspections
Open Plumbing Jobs / Work Types
Facades
Marquee Annual Permits
Boiler Records
DEP Boiler Information
Crane Information
After Hours Variance Permits

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Form 54-35M-7-01 (Rev. 51) 114

DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF QUEENS, CITY OF NEW YORK

No. Q 82523

Date 6/30/52

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No. Q 34484

To the owner or owners of the building or premises:

THIS CERTIFIES that the ~~new~~ ~~altered~~ ~~existing~~ building premises located at 224-01 to 09 Merrick Blvd., NEC. 224 St.

Block 12963 Lot 308

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

N.B. of Alt. No.— Alt. 2522/49 Construction classification— Non-fire

Occupancy classification— Key Commercial Height 1 stories, 17 feet.

Date of completion— 4/30/52 . Located in Business Use District.

D Area 1 . Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
Cellar	On Gr.				Boiler Room
1					Auto Show Room, Auto Repairs & Parking for more than five (5) Motor Vehicles, (No fee to be charged)
					Fire Department certification June 23, 1952.
					All in accordance with Board of Standards & Appeals - BZ 136/45, limiting repairs to hand tools & excluding anvils & forges, also gasoline shall be for accessory use only.
					Plot - 100' X 100'

Borough Superintendent.

(Page 1)

NYC Buildings

NYC.gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Actions

Premises: 224-01 MERRICK BOULEVARD QUEENS BIN: 4279311 Block: 12963 Lot: 308

NUMBER	TYPE	FILE DATE
MIS 5186-45	MISCELLANEOUS	00/00/1945
MIS 5883-45	MISCELLANEOUS	00/00/1945
MIS 13649-46ES	MISCELLANEOUS	00/00/1946
NB 51-45	NEW BUILDING	00/00/1945
PR 32-33-58		00/00/1933
PR 3032-52		00/00/1952
PR 31-58		00/00/1958
PR 1647-84		00/00/1984
PR 1647-84		00/00/1984
Q 34038(NB51-45)		00/00/1945

Previous Next

Enter Action Type: Or Select from List: Select... Refresh

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

12.5 Environmental Database Report and Regulatory Agency Documentation

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:

224-01 MERRICK BLVD

SPRINGFIELD GARDENS NY 11413

Job Number: 12-123

PREPARED FOR:

Middleton Environmental Inc.

50 Park Avenue

Babylon, NY 11702

02-06-12

Tel: (781) 551-0470 *Fax: (781) 551-0471*

Environmental FirstSearch
Search Summary Report

Target Site: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	10-25-11	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	10-25-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	09-30-11	0.50	0	0	0	0	-	0	0
NFRAP	Y	09-30-11	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	01-10-12	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	01-10-12	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	01-10-12	0.25	0	4	0	-	-	1	5
Federal Brownfield	Y	12-01-11	0.50	0	0	0	0	-	0	0
ERNS	Y	01-11-12	0.12	0	1	-	-	-	0	1
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	2	2
State/Tribal Sites	Y	01-10-12	1.00	0	0	0	0	0	0	0
State Spills 90	Y	01-10-12	0.12	0	3	-	-	-	1	4
State Spills 80	Y	11-02-10	0.25	0	0	1	-	-	0	1
State/Tribal SWL	Y	02-01-11	0.50	0	0	0	0	-	4	4
State/Tribal LUST	Y	01-10-12	0.50	0	0	3	10	-	0	13
State/Tribal UST/AST	Y	01-10-12	0.25	0	7	4	-	-	0	11
State/Tribal EC	Y	01-10-12	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	01-10-12	0.25	1	5	4	-	-	0	10
State/Tribal VCP	Y	01-10-12	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	01-10-12	0.50	0	0	0	0	-	0	0
Federal IC/EC	Y	11-01-11	0.50	0	0	0	0	-	0	0
- TOTALS -				1	20	12	10	0	8	51

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date:	02-06-12	**Search Type:**	COORD
Requestor Name:	Amy M. DePietto	**Job Number:**	12-123
Standard:	AAI	**Filtered Report**	

Target Site: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

Demographics

Sites: 51 **Non-Geocoded:** 8 **Population:** NA

Radon: OF THE 9 HOMES TESTED, THE AVG. PCI/L LEVEL WAS .7

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-73.745408	-73:44:43	**Easting:**	606029.281
Latitude:	40.677856	40:40:40	**Northing:**	4503542.413
Elevation:	32		**Zone:**	18

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel
11422	ROSEDALE	NY	0.49 SE	Y
11411	CAMBRIA HEIGHTS	NY	0.72 NE	N
11412	SAINT ALBANS	NY	0.71 NW	N
11434	JAMAICA	NY	0.57 SW	N
11580	VALLEY STREAM	NY	0.97 SE	N

Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	Yes	02-06-12
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

TOTAL: 51 **GEOCODED:** 43 **NON GEOCODED:** 8 **SELECTED:** 7

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
5	ERNS	R and S STRAUSS 167851/FIXED FACILITY	S R and STRAUSS STORE 2 LAURELTON NY 11413	0.02 SE	0	N/A
1	***INSTCONTRO***	***E DESIGNATION SITE*** ***E-219-1136***	***12963*** ***QUEENS NY 11413***	***0.00 --***	***N/A***	***1***
2	INSTCONTRO	E DESIGNATION SITE E-219-1135	12962 QUEENS NY 11413	0.01 NW	N/A	N/A
3	INSTCONTRO	E DESIGNATION SITE E-219-1143	13103 QUEENS NY 11413	0.01 SW	N/A	N/A
4	INSTCONTRO	E DESIGNATION SITE E-219-1144	13105 QUEENS NY 11413	0.01 SW	N/A	N/A
8	INSTCONTRO	E DESIGNATION SITE E-219-1142	13102 QUEENS NY 11413	0.05 NW	N/A	N/A
11	INSTCONTRO	E DESIGNATION SITE E-219-1141	13100 QUEENS NY 11413	0.09 NW	N/A	N/A
16	INSTCONTRO	E DESIGNATION SITE E-219-1134	12960 QUEENS NY 11413	0.14 NW	N/A	N/A
17	INSTCONTRO	E DESIGNATION SITE E-219-1140	13098 QUEENS NY 11413	0.17 NW	N/A	N/A
19	INSTCONTRO	E DESIGNATION SITE E-219-1133-B	12958 QUEENS NY 11413	0.21 NW	N/A	N/A
22	INSTCONTRO	E DESIGNATION SITE E-219-1133	12958 QUEENS NY 11413	0.23 NW	N/A	N/A
18	***LUST***	***MOBIL S/S*** ***8903511/ACTIVE***	***228 MERRICK BLVD*** ***LAURELTON NY 11413***	***0.20 SE***	***- 7***	***3***
18	LUST	MOBIL S/S 9007891/CLOSED	228-20 MERRICK BLVD NEW YORK NY 11413	0.20 SE	- 7	N/A
20	LUST	131-34 227TH STREET 9311499/CLOSED	131-34 227TH ST QUEENS NY 11413	0.22 NE	+ 2	N/A
24	LUST	133-25 128TH ST. 8706572/CLOSED	133-25 218TH ST QUEENS NY 11413	0.30 NW	+ 4	N/A
25	LUST	TANK FAILURE,QUEENS 8602744/CLOSED	131-39 FRANCIS LEWIS BLVD QUEENS NY 11413	0.40 SE	+ 1	N/A
26	LUST	136-25 218TH ST./MARTIN D 8705942/CLOSED	136-25 218TH ST QUEENS NY 11413	0.41 SW	- 3	N/A
27	LUST	J-CAP INCORPORATED 0111119/CLOSED	231-35 MERRICK BLVD QUEENS NY 11413	0.42 SE	- 5	N/A
28	LUST	135-02 SPRINGFIELD GARDEN 8503980/CLOSED	135-02 SPRINGFIELD BLVD SPRINGFIELD GA NY 11413	0.47 NW	- 3	N/A
28	LUST	NYNEX/135-02 SPRINGFIELD 8800057/CLOSED	135-02 SPRINGFIELD BLVD QUEENS NY 11413	0.47 NW	- 3	N/A
28	LUST	135-02 SPRINGFIELD BLVD 8708034/CLOSED	135-02 SPRINGFIELD BLVD QUEENS NY 11413	0.47 NW	- 3	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

TOTAL: 51 **GEOCODED:** 43 **NON GEOCODED:** 8 **SELECTED:** 7

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
28	LUST	135-02 SPRINGFIELD BLVD 9102087/CLOSED	135-02 SPRINGFIELD BLVD QUEENS NY 11413	0.47 NW	- 3	N/A
29	***LUST***	***COMMERCIAL PROPERTY - MISC 0503427/HISTORIC-ACTIVE***	***232-17 MERRICK BLVD QUEENS NY 11413***	***0.47 SE***	***- 2***	***5***
30	LUST	PRIVATE HOME 9702599/CLOSED	138-47 227TH ST QUEENS NY 11413	0.50 SW	- 28	N/A
5	***RCRAGN***	***HET AUTO REPAIR NYR000108217/SGN***	***224-02 MERRICK BLVD LAURELTON NY 11413***	***0.02 SE***	***0***	***7***
5	***RCRAGN***	***R and S STRAUSS STORE 416 NYD986984631/VGN***	***224-01 MERRICK BLVD QUEENS NY 11413***	***0.02 SE***	***0***	***9***
9	RCRAGN	DAISEY FRESH DRIVE IN CLEANERS NYD981486194/SGN	225-06 MERRICK BLVD SPRINGFIELD GA NY 11413	0.06 SE	0	N/A
12	RCRAGN	NYCDEP WELL STATION 56 NYR000074690/SGN	134-15 222ND ST SPRINGFIELD GA NY 11413	0.11 NW	- 22	N/A
	RCRAGN	E-PACK EXPRESS CORP NYR000170936/SGN	145 226TH ST QUEENS NY 11413	NON GC	N/A	N/A
10	SPILLS	EMS STATION (FUTURE) 0408491/ACTIVE	222-15 MERRICK BLVD SPRINGFIELD GA NY 11413	0.07 NW	- 18	N/A
12	SPILLS	TANK STATION 29 0712681/CLOSED	134-15 222ND ST QUEENS NY 11413	0.11 NW	- 22	N/A
13	SPILLS	222ND ST/134THAVE/MERRICK 9205352/CLOSED	222ND ST QUEENS NY 11413	0.11 NW	- 16	N/A
	SPILLS	LIRR 9205771/CLOSED	225TH ST SUBSTATION QUEENS NY 11413	NON GC	N/A	N/A
18	SPILLS80	MOBIL S/S 8903511/ACTIVE	228-20 MERRICK BLVD JAMAICA NY 11413	0.20 SE	- 7	N/A
	SWL	NELSON S AUTO SALVAGE INC NYSW-0611-0675/ACTIVE	122 MONTAUK ST SPRINGFIELD GA NY 11413	NON GC	N/A	N/A
	SWL	NYCDOS SPRINGFIELD BLVD.(IDLEW 2-41YA3/INACTIVE	SPRINGFIELD BLVD. IDLEWILD SPRINGFIELD GA NY 11413	NON GC	N/A	N/A
	SWL	VILLAGE MOTOR CARS INC NYSW-0611-0678/INACTIVE	185 MERRICK BLVD QUEENS NY 11413	NON GC	N/A	N/A
	SWL	C and K AUTOMOTIVE INC NYSW-0611-0673/INACTIVE	12222 MONTAUK ST SPRINGFIELD GA NY	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-11413	UNKNOWN NY 11413	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-11422	UNKNOWN NY 11422	NON GC	N/A	N/A
6	***UST***	***AUTO REPAIR SHOP (HET AUTO REP PBS2-607937/UNREGULATED***	***224 MERRICK BLVD QUEENS NY 11413***	***0.02 NE***	***- 2***	***11***

Environmental FirstSearch
Sites Summary Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

TOTAL: 51 **GEOCODED:** 43 **NON GEOCODED:** 8 **SELECTED:** 7

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
5	***UST***	***STRAUSS DISCOUNT AUTO PBS2-608424/UNREGULATED***	***224 MERRICK BLVD QUEENS NY 11413***	***0.02 SE***	***0***	***15***
7	UST	TANNOR GARAGE PBS2-269832/UNREGULATED	223-18 MERRICK BLVD JAMAICA NY 11413	0.03 NW	- 5	N/A
9	UST	MOHAMED DARHAN PBS2-359513/ACTIVE	225-01 MERRICK BLVD LAURELTON NY 11413	0.06 SE	0	N/A
10	UST	EMS BAT 54 - SPRINGFIELD GARDE PBS2-269794/ACTIVE	222-15 MERRICK BLVD JAMAICA NY 11413	0.07 NW	- 18	N/A
12	UST	NYC DEP GROUNDWATER CBS2-000120/ACTIVE	134-15 222ND ST SPRINGFIELD GA NY 11413	0.11 NW	- 22	N/A
14	UST	SOCIAL CONCERN COMMITTEE PBS2-401358/UNREGULATED	226-18 MERRICK BLVD LAURELTON NY 11413	0.11 SE	- 12	N/A
15	UST	221-06 MERRICK BLVD. ASSOCIATE PBS2-508667/UNREGULATED	221-18 MERRICK BLVD JAMAICA NY 11413	0.13 NW	- 13	N/A
18	UST	MOBIL R/S 11023 PBS2-157201/ACTIVE	228-20 MERRICK BLVD LAURELTON NY 11413	0.20 SE	- 7	N/A
21	UST	DUNCAN BROTHERS SERVICE STATIO PBS2-600329/ACTIVE	219 MERRICK BLVD LAURELTON NY 11413	0.23 NW	- 5	N/A
23	UST	LOWLAND REALTY CORP PBS2-236616/ACTIVE	136-16 222ND ST QUEENS NY 11413	0.25 SW	- 22	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

INSTCONTROL

SEARCH ID: 37 **DIST/DIR:** 0.00 -- **ELEVATION:** **MAP ID:** 1

NAME: E DESIGNATION SITE
ADDRESS: 12963
NY
QUEENS
CONTACT:
SOURCE: NYDCP

REV: 10/5/11
ID1: E-219-1136
ID2: 08DCP073Q
STATUS:
PHONE:

SITE INFORMATION

E NUMBER: E-219
CEQR NUMBER: 08DCP073Q
ULURP NUMBER: 080462ZMQ
ZONING MAP: 19A 19B 19C 19D
EFFECTIVE DATE: 9/4/2008
LOT REMEDIATION DATE:
DESCRIPTION: Hazardous Materials* Phase I and Phase II Testing Protocol, Window Wall Attenuation and Alternate Ventilation
TAX BLOCK: 12963
TAX LOTS: 308

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

LUST

SEARCH ID: 30 **DIST/DIR:** 0.20 SE **ELEVATION:** 25 **MAP ID:** 18

NAME: MOBIL S/S
ADDRESS: 228 MERRICK BLVD
LAURELTON NY
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: 8903511
ID2: 295150
STATUS: ACTIVE
PHONE:

SITE INFORMATION

SPILL DATE: 7/7/1989
CLOSED DATE:
DATE REPORTED: 7/7/1989
INSP DATE:

MATERIAL SPILLED: GASOLINE
MATERIAL CLASS: PETROLEUM
AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
WATERBODY AFFECTED:
SOURCE OF SPILL: GASOLINE STATION
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS: FOUND FREE PRODUCT IN ONE OF THE MONITORING WELLS, SUSPECTS RANDOM DRILLING.

REGION:
UST TRUST? YES

SPILL INVESTIGATOR: RHFILKIN
SPILL CONTACT:
TELEPHONE:

SPILLER: EXXONMOBIL CORPORATION
MIKE MEOLA
ADDRESS: 3225 GALLOS RD-2A
FAIRFAX, VA 22037-

TELEPHONE:

REPORTED BY: RESPONSIBLE PARTY

LAST DEC UPDATE: 9/19/2007
CLEAN UP MEET STANDARDS? NO
PENALTY RECOMMENDED? NO

DEC REMARKS:
Prior to Sept, 2004 data translation this spill Lead_DEC Field was FILKINS This spill site has been transferred from DEC Sigona to Remedial Bureau B, on August 4, 2003. This spill site has been consolidated under Spill No. 8903511. Reassigned from sullivan to sigona on 10/27/00 DEC s comments regarding a Revised Subsurface Investigation Work Plan from Roux Associates to install off-site groundwater monitoring wells, dated April 11, 2003. Based on the results of our site visit on March 13, 2003, and evaluation of the proposal by Roux Associates, the DEC accepts ExxonMobil s Work Plan and Schedule to further evaluate the off-site contamination at this location. Exxon-Mobil must now complete the implementation of the Work Plan according to the proposed schedule. The results of this investigation must be compiled into a Subsurface Investigation Report prepared in accordance with Section No. 3, paragraph 3.14 of the Division of Environmental Remediation s Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002. A complete Remedial Investigation Report must be submitted for DEC review and approval according to the proposed implementation scheduled.

THERE MAYBE MORE DEC REMARKS AVAILBLE, PLEASE CONTACT THE NY DEC (518) 402-9549 FOR FURTHER INFORMATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

LUST

SEARCH ID: 30 **DIST/DIR:** 0.20 SE **ELEVATION:** 25 **MAP ID:** 18

NAME: MOBIL S/S
ADDRESS: 228 MERRICK BLVD
LAURELTON NY
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: 8903511
ID2: 295150
STATUS: ACTIVE
PHONE:

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

LUST

SEARCH ID: 27 **DIST/DIR:** 0.47 SE **ELEVATION:** 30 **MAP ID:** 29

NAME: COMMERCIAL PROPERTY - MISC
ADDRESS: 232-17 MERRICK BLVD
QUEENS NY 11413
QUEENS
CONTACT:
SOURCE:

REV: 8/13/07
ID1: 0503427
ID2: 348035
STATUS: HISTORIC-ACTIVE
PHONE:

SITE INFORMATION

SPILL DATE: 6/21/2005
CLOSED DATE: 12:00:00 AM
DATE REPORTED: 6/21/2005
INSP DATE: 12:00:00 AM

MATERIAL SPILLED: UNKNOWN PETROLEUM
MATERIAL CLASS: PETROLEUM
AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: OTHER
CALLER REMARKS: START CALLERREMARK - 0503427 FOUND MATERIAL 23FT. BELOW GROUND SURFACE DURING A SUBSURFACE INVESTIGATION. A SHEEN WAS FOUND IN THE WELL ON THE PROPERTY. GROUNDWATER WAS AFFECTED. UNKNOWN WHO IS DOING CLEAN UP. END CALLERREMARK - 0503427

REGION: 2
UST TRUST? NO

SPILL INVESTIGATOR: kkchanda
SPILL CONTACT: CAROLINE CANDALFO
TELEPHONE: (631) 293-4992

SPILLER: UNKNOWN
UNKNOWN NAME
ADDRESS:
, ZZ

TELEPHONE:

REPORTED BY: OTHER

LAST DEC UPDATE: 9/14/2007
CLEAN UP MEET STANDARDS? NO
PENALTY RECOMMENDED? NO

DEC REMARKS:
Start DECRemark - 0503427 6/22/05-Vought-Called Caroline Cadolfo and contamination is fuel oil. Fuel oil UST abandoned in place (2000-gallon) UST. No information available on property owner. Advanced working for potential purchaser. Spill referred to daytime duty officer DEC Rahman to send out soil contamination letter. 06/22/05 SR// CSL was sent to Jae Kim Mun 3309 160th Street Flushing, NY 11358 6/22/05-Vouight-Received call from Caroline Cadolfo that she had owners info. Vought returned call and left message. 07/26/05.. SR. Property owner s attorney has been provided with spill report as per his request. He will follow up with DEC regarding the clean up. 10.07.05 SR//I called Mr. Samuel s Office, (212)967-1112 who is the lawyer for the property owner. His secretary will inform him about the department s concern. 12/20/05-Sharif// Case was transferred to Koon Tang for reassignment since ground water is affected and free product found below the ground. 1/13/2006 - Feng - File reviewed by Feng: 1) this site has two problem: a) the abandoned UST, and b) the dry cleaning laundromat onsite 2) Advanced Cleanup Technologies (ACT) has done the phase II investigation. 4 groundwater samples were taken. Groundwater was encountered at 22 bg. Found (fuel oil problem) FP (0.01) in the well near the abandoned UST, PID reading 611 ppm. Found < 50 ppb Perc (Tetrachloroethene) in other 3 groundwater samples. 3) ACT proposed to a) to remove the UST, b) to delineate soil/groundwater contamination associated with on-site dry cleaning operations. 2/7/2006 - Feng - The site is within the Jamaica drinking water wells buffer zone (1/2 mile radius). 02/09/06: This spill transferred from R.Feng to S.Kraszewski.

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

LUST

SEARCH ID: 27 **DIST/DIR:** 0.47 SE **ELEVATION:** 30 **MAP ID:** 29

NAME: COMMERCIAL PROPERTY - MISC
ADDRESS: 232-17 MERRICK BLVD
QUEENS NY 11413
QUEENS
CONTACT:
SOURCE:

REV: 8/13/07
ID1: 0503427
ID2: 348035
STATUS: HISTORIC-ACTIVE
PHONE:

02/21/06: S.Kraszewski called Samuel Ahne, attorney for RP, Jae Kim Mun. I requested an update for the current site condition and current consultant who is doing the work. Apparently, Advanced Clean-up Tech. is no longer performing work for this site. He said to give him a couple of days to find out then he would fax what he turns up. Expect info. by Friday, Feb 24. - SK 04/17/06: Elizabeth Kim, a new attorney for the RP called. She was aware that I had spoken with Mr. Ahne back in February. She wanted to know what I had requested of him. I told her I need an update on what I going on at this site. She is Emailing me some documents, due by Friday, April 21. - SK 04/21/06: SK spoke with E. Kim, attorney for the RP. I told her that I recieved the documents, which basically add up to a bid contract summary from Berninger Environmental. It appears that these docments where not recieved by the Department, which they never had to be in the first place. I said that the first thing I need from Berninger is an Investigative Work Plan for review. I asked her also to keep me updated on dates and timelines, also to have her pass on my contact info to the project manager at Berninger. - SK 04/26/06: Recieved an Email from Walter Berninger from Berninger Environmental. He is requesting guidance on how to proceed with the site. Basically, he needs to know what work the DEC is requiring at this point. SK called Walter (631-589-6521) to find out what he knows about the spill. Berninger Env. performed some investigative services last fall but the documentation never reached DEC. Also, he was aware that ACT performed a Phase I/II investigation but the owner can produce the documents. SK suggested to exchange documentation and after reviewing it discuss what steps to take next. Walter was told that more than likely a subsurface delineation will have to be performed but until we each receive the missing reports no action will be requested. - SK 05/08/06: Reviewed UST Investigation Report submitted by Berninger Environmental, Inc. on October 7, 2005. Four perimeter soil borings were advanced all the way to GW. The report finds no VOC or SVOC exceedences in the soil subsurface surrounding the UST and concludes that any impacts to the soil are directly beneath the UST. One soil boring was converted to a temporary GW well where significant 2 fuel impacts were seen on the water table. Berninger recommends removal of the UST and any impacted soil beneath the tank and a GW remediation plan should be prepared. - SK 05/11/06: Called Elizabeth Kim, attorney for the RP. She said they have received a revised estimate from Beninger Environmental and she needs to go over the changes with her client, today at 4:30. She will forward an Email this afternoon or tomorrow indicating whether or not the RP signed the bid agreement and what ever else may have transpired. - SK 06/02/06: SK received Email from Walter Berninger, at Berninger Environmental to inform me that they have been retained by the RP to perform the investigative work to delineate GW contamination. The Email states that they plan to start next week on June 6. However, I have received no work plan. SK replied with an Email explaining that a work plna must be submitted to my attention for review and approval/modification before any investgative work starts. This work plan must include a site plan with appropriate symbols and labels, proposed boring and MW locations, historic boring locations, etc. SK spoke with Walter in the afternoon, he said he anticipates that the work plan should be finished within two weeks, by mid-June. He also noted that three temporary MWs will be installed to assess GW flow direction. - SK 07/10/06: Called Walter Berninger (631-589-6521) to ask about the status of the work plan. He told me that a revised quotation was sent to the RP and Elizabeth Kim, attorney for approval on June 8, 2006. Kim told Walter that her client is out of the country but would return within a week. It is now a month later and no reponse. Will contact the attorney, E. Kim. Spoke with Elizabeth Kim (718-423-3200), asked why there is a delay for accepting Berninger s quote. Ms Kim explained that the price quote doubled compared to the original. I asked for a copy of each quote. Staff will contact Walter Berninger to discuss the situation. Called Walter, left message to call back. - SK 07/11/06: Walter Berninger called back to discuss his client s situation. I told him that the RP was concered with the increase in price. I told him to stress to the client that the contamination is within an active Jamaica Water Supply well buffer zone, and this investigation must determine the extent of the subsurface impact. I noted that I am requiring both VOC and SVOC testing because a previous investigation showed impacts from both types of volatiles. Despite that the culprit happens to be a fuel oil tank, VOCs must be part of the lab analysis. He said he will talk with his client and hopefully get back to me by the end of this week. - SK 07/24/06: Called Elizabeth Kim (718-423-3200), attorney for the RP. I reiterated in brief what Walter Berninger and I talked about. Everything that he is asking for in his quote is necessary for this investigation. She just wanted to make sure that the items on the list were appropriate and not unnecessary. She will meet with her client this week. Walter should be preparing a work plan by 07/28. - SK 08/24/06: Walter Berninger (waltb optonline.net) emailed me to announce that Berninger Environmental has been officially retained to perform investigation work for this site. He will submit a work plan within a weeks time for my review. - SK 09/18/06: Reviewed Groundwater Investigation Work Plan submitted by Berniner Environmental, dated August 31, 2006. The plan involves the advancement of three MWs to first establish GW flow direction, a prerequisite for the MW network to delineate subsurface contamination. SK called Walter Berninger (631-589-6521). I asked him to place all three MWs within the parking aread between Perr-fect Cleaners and Merrick Blvd, and also that a two-inch MW should be advanced in the vicinity of TW-04, in the event they encounter free product they could use the well as a recovery point. Sent out approval email with the above-mentioned comments. Report and letter uploaded into eDocs. - SK 09/19/06: Received a call from E.Kim to inform me that with the current property transaction in progress the buyers do no approve of Berninger Environmental performing any remedial investigation/work whatsoever. Another consultant must be retained to perform the work. I told her that it doesn t matter who does it, as long as it gets done properly. Also, I told Kim that I expect no great delay in the implementation of this investigation work. - SK 11/09/06: Reassigned from Stephen Kraszewski to Chanda. (Chanda) 12/26/06: Kartik Chanda of DEC reviewed all papers and documents regarding this spill case. Chanda found, on 09/18/06, DEC approved the work plan along with several requests. 12/27/06: Chanda sent the Work Plan approval letter to RP(Ms.susan Lee) and email to Elizabeth Kim (attorney), Walter Berninger (Consultant), requiring that an Investigation Work Report be submitted to DEC for review by 02/26/07. 01/04/07: The letter was undeliverable to the address 37-11 Browne street, Suite 1-c, Flashing, NY11354. 01/05/07: Chanda resent the work plan approval letter to Ms.Susan Lee and Jae Kim Mun (RP) by certified mail. 4/16/07: Chanda called to Consultant and attorney to get investigation work report regarding this spill case. Attorney said that they will be submitted the investigation report as soon as possible. 6/8/07: Chanda sent an email to Ms. Kim (attorney) and cc: to Berninger Environmental, requiring that an investigation report and current property owner name, addresses with telephone number. Based upon Ms. Kim email, the

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

LUST

SEARCH ID: 27 **DIST/DIR:** 0.47 SE **ELEVATION:** 30 **MAP ID:** 29

NAME: COMMERCIAL PROPERTY - MISC
ADDRESS: 232-17 MERRICK BLVD
QUEENS NY 11413
QUEENS
CONTACT:
SOURCE:

REV: 8/13/07
ID1: 0503427
ID2: 348035
STATUS: HISTORIC-ACTIVE
PHONE:

new owner names: Mi Yong Yi and Min J. Kim aka Min j. Cho, and their attorney, Ms. Yu Mi Hong, Esq., Phone number: (718)482-8062, email: yumihongesq hotmail.com 6/11/07: Chanda sent an email to new attorney (Ms. Hong) regarding this spill case on 6/8/07, requiring that current the site status, new owner names and new owners address with phone number. On 6/11/07, Chanda received an email from Ms. Hong(attorney). She sent the new owner name and phone number. New owner: Mrs. Yi (Mi Yong Yi), Phone: (718) 525-7487 and The address is the business (property) address: Purr-Fect Cleaners 232-17 Merrick Blvd. Springfield Gardens NY 11413 A new attorney: Ms. Yu Mi Hong, Esq. Address: 38-29, 150 Street Flushing, NY 11354 Ph.: (718) 961-0012. Email: yumihongesq hotmail.com 6/13/07: Chanda sent a letter to Mrs. Yi, and her attorney (Ms. Hong)and cc ing to Berninger Environmental, Inc., requiring that an investigation report be submitted to DEC for review by July 30, 2007. 7/16/07: Chanda received an email with attached a time extension letter from a new consultant. The new consultant name and address are followed: Casey K Oh Principal Environmental Scientist and Engineering ODELPHI Environmental, Inc. 227 Grand Ave, Suite B, Palisades Park, NJ 07650 Ph.:201-302-9900 fax:201-302-9933 email:caseyoh odelphi.com 7/17/07: DEC approved time extension request to submit an investigation summary report. Therefore, an investigation summary report be submitted to DEC for review by September 10, 2007. 9/11/07: Chanda called Mr. Casey K. Oh, ODELPHI Environmental Inc., to get updated information and schedule to submit an investigation summary report regarding this spill case and left message. 9/14/07: Chanda received an email from Casey K. Oh regarding a couple of weeks time extension to submit the investigation report due to dillers scheduling.On 9/14/07, Chanda approves the time extension request, therefore, an investigation summary report must be submitted to DEC for review by October 9, 2007. END DECRemark - 0503427

THERE MAYBE MORE DEC REMARKS AVIALBLE, PLEASE CONTACT THE NY DEC (518) 402-9549 FOR FURTHER INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

RCRAGN

SEARCH ID: 2 **DIST/DIR:** 0.02 SE **ELEVATION:** 32 **MAP ID:** 5

NAME: HET AUTO REPAIR
ADDRESS: 224-02 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT: ROLAND FISHER
SOURCE: EPA

REV: 6/6/06
ID1: NYR000108217
ID2:
STATUS: SGN
PHONE: 6312493150

SITE INFORMATION

CONTACT INFORMATION: ROLAND FISHER
45 EXECUTIVE DR
PLAINVIEW NY 11803

PHONE: 6312493150

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Ignitable waste

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.02 SE **ELEVATION:** 32 **MAP ID:** 5

NAME: R and S STRAUSS STORE 416
ADDRESS: 224-01 MERRICK BLVD
QUEENS NY 11413
QUEENS
CONTACT: JAIMI LARA
SOURCE: EPA

REV: 6/6/06
ID1: NYD986984631
ID2:
STATUS: VGN
PHONE: 9086868200

SITE INFORMATION

CONTACT INFORMATION: JAIMI LARA
1835 BURNET AVE
UNION NJ 07083

PHONE: 9086868200

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZA
NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane
X001
The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a to

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.02 SE **ELEVATION:** 32 **MAP ID:** 5

NAME:	R and S STRAUSS STORE 416	**REV:**	6/6/06
ADDRESS:	224-01 MERRICK BLVD	**ID1:**	NYD986984631
	QUEENS NY 11413	**ID2:**	
	QUEENS	**STATUS:**	VGN
CONTACT:	JAIMI LARA	**PHONE:**	9086868200
SOURCE:	EPA		

Lead
Ignitable waste
The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, b

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 11 **DIST/DIR:** 0.02 NE **ELEVATION:** 30 **MAP ID:** 6

NAME: AUTO REPAIR SHOP (HET AUTO REPAIR)
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-607937
ID2:
STATUS: UNREGULATED
PHONE:

PETROLEUM BULK STORAGE FACILITY INFORMATION

SITE STATUS: UNREGULATED
EXPIRATION DATE: N/A

CONTACT INFORMATION

COMPANY NAME: AS AGENT JAME J. POWER
CONTACT :

45 EXECUTIVE DRIVE
PLAINVIEW,NY, 11803

(516) 576-0434

COMPANY NAME: AS AGENT JAME J. POWER
CONTACT : N/A

,NN,

(718) 276-7548

COMPANY NAME: AUTO REPAIR SHOP (HET AUTO REPAIR)
CONTACT : N/A

,NN,

(718) 276-7548

TANK INFORMATION

TANK NUMBER: 01 **TANK ID:** 63885
TANKS STATUS: CLOSED - IN PLACE **INSTALL DATE:**
CAPACITY(GAL): 550 **DATE OF TEST:**
NEXT TEST: **CLOSED DATE:**
REGISTERED: YES **TANK TYPE:** STEEL/CARBON STEEL
TANK LOCATION: UNDERGROUND, VAULTED, WITH ACCESS

TANK NUMBER: 02 **TANK ID:** 63886
TANKS STATUS: CLOSED - IN PLACE **INSTALL DATE:**
CAPACITY(GAL): 550 **DATE OF TEST:**
NEXT TEST: **CLOSED DATE:**
REGISTERED: YES **TANK TYPE:** STEEL/CARBON STEEL
TANK LOCATION: UNDERGROUND, VAULTED, WITH ACCESS

- Continued on next page -

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 11 **DIST/DIR:** 0.02 NE **ELEVATION:** 30 **MAP ID:** 6

NAME: AUTO REPAIR SHOP (HET AUTO REPAIR)
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-607937
ID2:
STATUS: UNREGULATED
PHONE:

TANK NUMBER: 03
TANKS STATUS: CLOSED - IN PLACE
CAPACITY(GAL): 550
NEXT TEST:
REGISTERED: YES
TANK LOCATION: UNDERGROUND, VAULTED, WITH ACCESS
TANK ID: 63887
INSTALL DATE:
DATE OF TEST:
CLOSED DATE:
TANK TYPE: STEEL/CARBON STEEL

TANK NUMBER: 04
TANKS STATUS: CLOSED - IN PLACE
CAPACITY(GAL): 550
NEXT TEST:
REGISTERED: YES
TANK LOCATION: UNDERGROUND, VAULTED, WITH ACCESS
TANK ID: 63888
INSTALL DATE:
DATE OF TEST:
CLOSED DATE:
TANK TYPE: STEEL/CARBON STEEL

HISTORIC TANK INFORMATION FROM 2007

TANK NUMBER: 01
ACTIVE STATUS: INACTIVE
CLOSED:
PRODUCT: EMPTY
TANK STATUS: CLOSED - IN PLACE
INSTALLED:
TANK CAPACITY: 550 GALLONS

TANK TYPE: STEEL/CARBON STEEL/IRON
TANK LOCATION: UNDERGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

PIPE TYPE: STEEL/CARBON STEEL/IRON
PIPE LOCATION: UNDERGROUND/ON-GROUND
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

SECONDARY CONTAINMENT: NONE
SECONDARY CONTAINMENT 2:
LEAK DETECTION: NONE
LEAK DETECTION 2:

OVERFILL PROTECTION: NONE
OVERFILL PROTECTION 2:
DISPENSER:
SPILL PREVENTION:
DATE TESTED:
NEXT TEST:
TEST METHOD: TESTING NOT REQUIRED

TANK NUMBER: 02
ACTIVE STATUS: INACTIVE
CLOSED:
PRODUCT: EMPTY
TANK STATUS: CLOSED - IN PLACE
INSTALLED:
TANK CAPACITY: 550 GALLONS

- Continued on next page -

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 11 **DIST/DIR:** 0.02 NE **ELEVATION:** 30 **MAP ID:** 6

NAME: AUTO REPAIR SHOP (HET AUTO REPAIR)
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-607937
ID2:
STATUS: UNREGULATED
PHONE:

TANK TYPE: STEEL/CARBON STEEL/IRON
TANK LOCATION: UNDERGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

PIPE TYPE: STEEL/CARBON STEEL/IRON
PIPE LOCATION: UNDERGROUND/ON-GROUND
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

SECONDARY CONTAINMENT: NONE
SECONDARY CONTAINMENT 2:
LEAK DETECTION: NONE
LEAK DETECTION 2:

OVERFILL PROTECTION: NONE
OVERFILL PROTECTION 2:
DISPENSER:
SPILL PREVENTION:
DATE TESTED:
NEXT TEST:
TEST METHOD: TESTING NOT REQUIRED

TANK NUMBER: 03 **TANK STATUS:** CLOSED - IN PLACE
ACTIVE STATUS: INACTIVE **INSTALLED:**
CLOSED: **TANK CAPACITY:** 550 GALLONS
PRODUCT: EMPTY

TANK TYPE: STEEL/CARBON STEEL/IRON
TANK LOCATION: UNDERGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

PIPE TYPE: STEEL/CARBON STEEL/IRON
PIPE LOCATION: UNDERGROUND/ON-GROUND
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

SECONDARY CONTAINMENT: NONE
SECONDARY CONTAINMENT 2:
LEAK DETECTION: NONE
LEAK DETECTION 2:

OVERFILL PROTECTION: NONE
OVERFILL PROTECTION 2:
DISPENSER:
SPILL PREVENTION:
DATE TESTED:
NEXT TEST:
TEST METHOD: TESTING NOT REQUIRED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 11 **DIST/DIR:** 0.02 NE **ELEVATION:** 30 **MAP ID:** 6

NAME: AUTO REPAIR SHOP (HET AUTO REPAIR)
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-607937
ID2:
STATUS: UNREGULATED
PHONE:

TANK NUMBER: 04
ACTIVE STATUS: INACTIVE
CLOSED:
PRODUCT: EMPTY

TANK STATUS: CLOSED - IN PLACE
INSTALLED:
TANK CAPACITY: 550 GALLONS

TANK TYPE: STEEL/CARBON STEEL/IRON
TANK LOCATION: UNDERGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

PIPE TYPE: STEEL/CARBON STEEL/IRON
PIPE LOCATION: UNDERGROUND/ON-GROUND
EXTERNAL PROTECTION: NONE
EXTERNAL PROTECTION 2:

SECONDARY CONTAINMENT: NONE
SECONDARY CONTAINMENT 2:
LEAK DETECTION: NONE
LEAK DETECTION 2:

OVERFILL PROTECTION: NONE
OVERFILL PROTECTION 2:
DISPENSER:
SPILL PREVENTION:
DATE TESTED:
NEXT TEST:
TEST METHOD: TESTING NOT REQUIRED

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 19 **DIST/DIR:** 0.02 SE **ELEVATION:** 32 **MAP ID:** 5

NAME: STRAUSS DISCOUNT AUTO
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-608424
ID2:
STATUS: UNREGULATED
PHONE:

PETROLEUM BULK STORAGE FACILITY INFORMATION

SITE STATUS: UNREGULATED
EXPIRATION DATE: N/A

CONTACT INFORMATION

COMPANY NAME: TSA ENVIRONMENTAL
CONTACT : JOSEPH GALLEY

153 EAST MAIN STREET
ROCKAWAY,NJ, 07866

(973) 983-6520

COMPANY NAME: STRAUSS DISCOUNT AUTO
CONTACT :

9A BRICK PLANT ROAD
SOUTH RIVER,NJ, 08882

(732) 390-9000

COMPANY NAME: STRAUSS DISCOUNT AUTO
CONTACT : BILL BELINOWICZ

,NN,

(732) 390-9000

COMPANY NAME: STRAUSS DISCOUNT AUTO
CONTACT : STRAUSS DISCOUNT AUTO

,NY,

(718) 385-1864

TANK INFORMATION

TANK NUMBER:	001	**TANK ID:**	65151
TANKS STATUS:	CLOSED - REMOVED	**INSTALL DATE:**	
CAPACITY(GAL):	1000	**DATE OF TEST:**	
NEXT TEST:		**CLOSED DATE:**	2/1/2003
REGISTERED:	YES	**TANK TYPE:**	STEEL/CARBON STEEL

- Continued on next page -

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

UST

SEARCH ID: 19 **DIST/DIR:** 0.02 SE **ELEVATION:** 32 **MAP ID:** 5

NAME: STRAUSS DISCOUNT AUTO
ADDRESS: 224 MERRICK BLVD
LAURELTON NY 11413
QUEENS
CONTACT:
SOURCE: NY DEC

REV: 1/10/12
ID1: PBS2-608424
ID2:
STATUS: UNREGULATED
PHONE:

TANK LOCATION: UNDERGROUND, VAULTED, WITH ACCESS

HISTORIC TANK INFORMATION FROM 2007

TANK NUMBER:	001	**TANK STATUS:**	CLOSED - REMOVED
ACTIVE STATUS:	INACTIVE	**INSTALLED:**	
CLOSED:	2/1/2003	**TANK CAPACITY:**	1000 GALLONS
PRODUCT:	WASTE OIL/USED OIL		
TANK TYPE:	STEEL/CARBON STEEL/IRON		
TANK LOCATION:	UNDERGROUND		
INTERNAL PROTECTION:	NONE		
EXTERNAL PROTECTION:	NONE		
EXTERNAL PROTECTION 2:			
PIPE TYPE:	STEEL/CARBON STEEL/IRON		
PIPE LOCATION:	UNDERGROUND/ON-GROUND		
EXTERNAL PROTECTION:	NONE		
EXTERNAL PROTECTION 2:			
SECONDARY CONTAINMENT:	NONE		
SECONDARY CONTAINMENT 2:			
LEAK DETECTION:	NONE		
LEAK DETECTION 2:			
OVERFILL PROTECTION:	NONE		
OVERFILL PROTECTION 2:			
DISPENSER:			
SPILL PREVENTION:			
DATE TESTED:			
NEXT TEST:			
TEST METHOD:	TESTING NOT REQUIRED		

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 224-01 MERRICK BLVD
SPRINGFIELD GARDENS NY 11413

JOB: 12-123

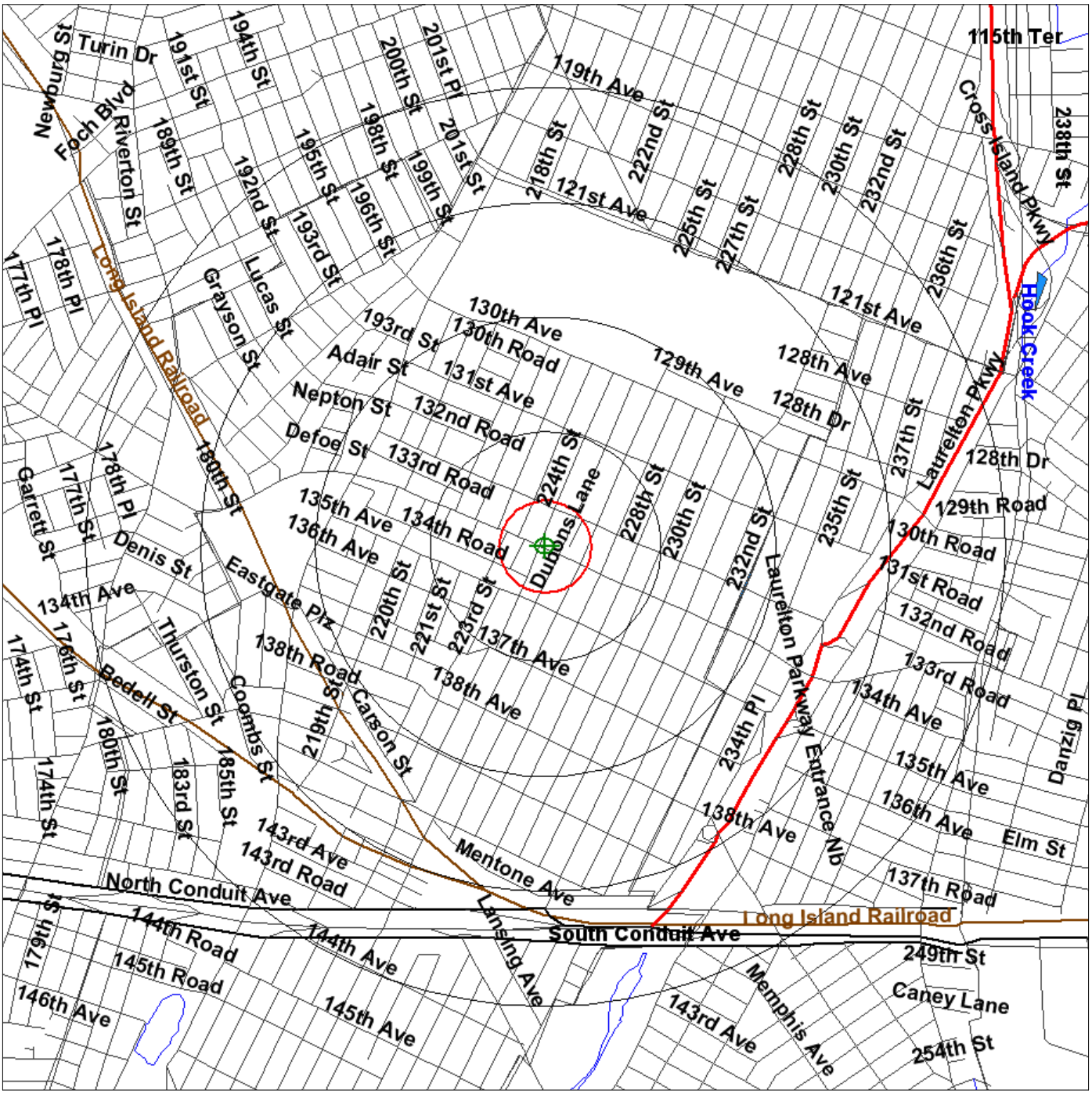
Street Name	Dist/Dir	Street Name	Dist/Dir
133rd Ave	0.10 NE		
133rd Rd	0.20 NW		
134th Rd	0.06 SW		
135th Ave	0.11 SW		
136th Ave	0.19 SW		
137th Ave	0.23 SW		
220th Pl	0.21 SW		
220th St	0.19 NW		
221st St	0.14 NW		
222nd St	0.07 NW		
223rd St	0.03 NW		
224th St	0.01 NE		
225th St	0.05 SE		
226th St	0.10 SE		
227th St	0.15 SE		
228th St	0.20 SE		
229th St	0.25 SE		
Dubons Ln	0.08 NE		
Merrick Blvd	0.01 NE		

Environmental FirstSearch

1 Mile Radius

AAI: NPL, RCRACOR, STATE

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

AAI: Multiple Databases

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413

Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

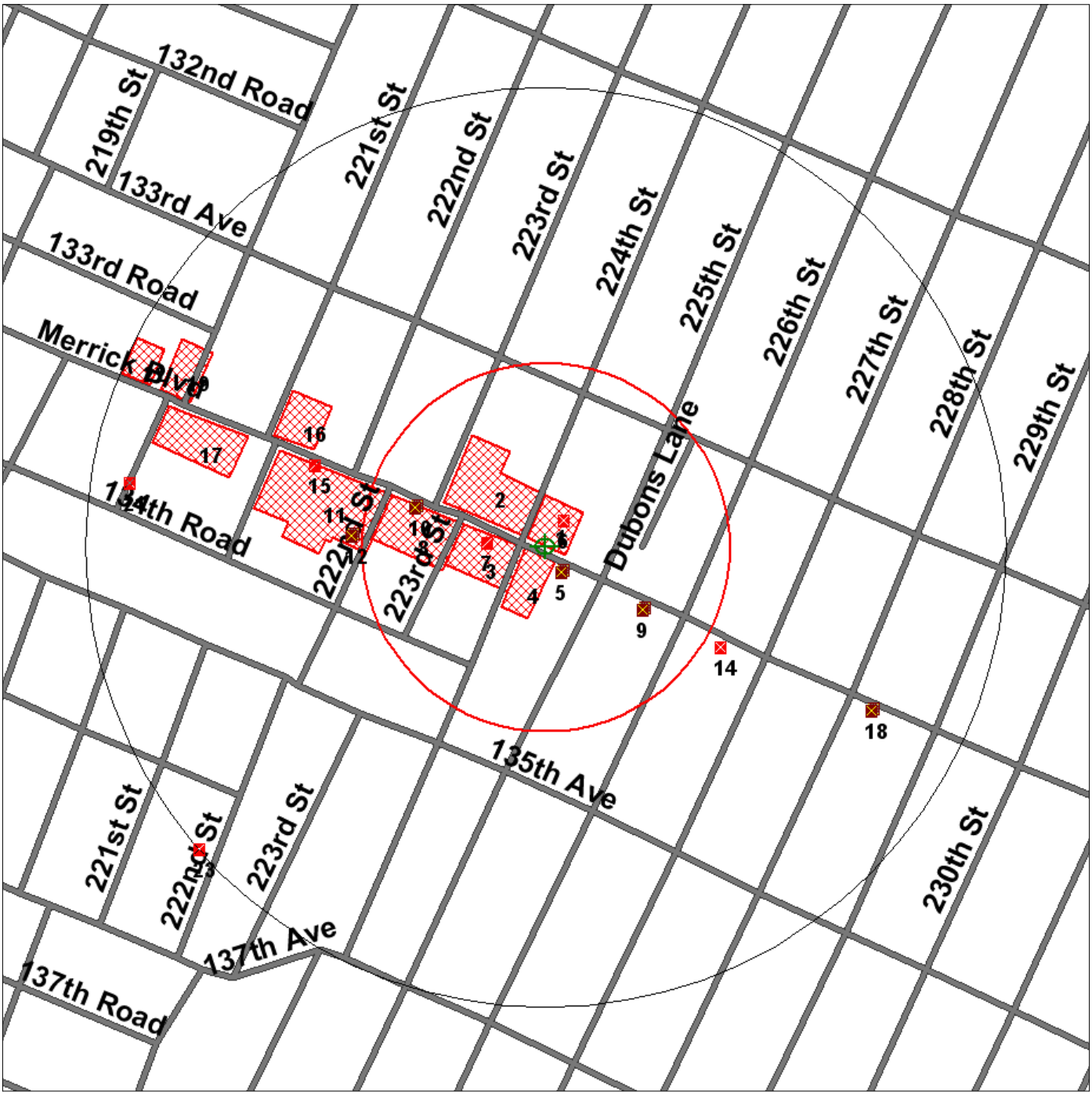
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

AAI: RCRAGEN, UST, SPILLS80

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

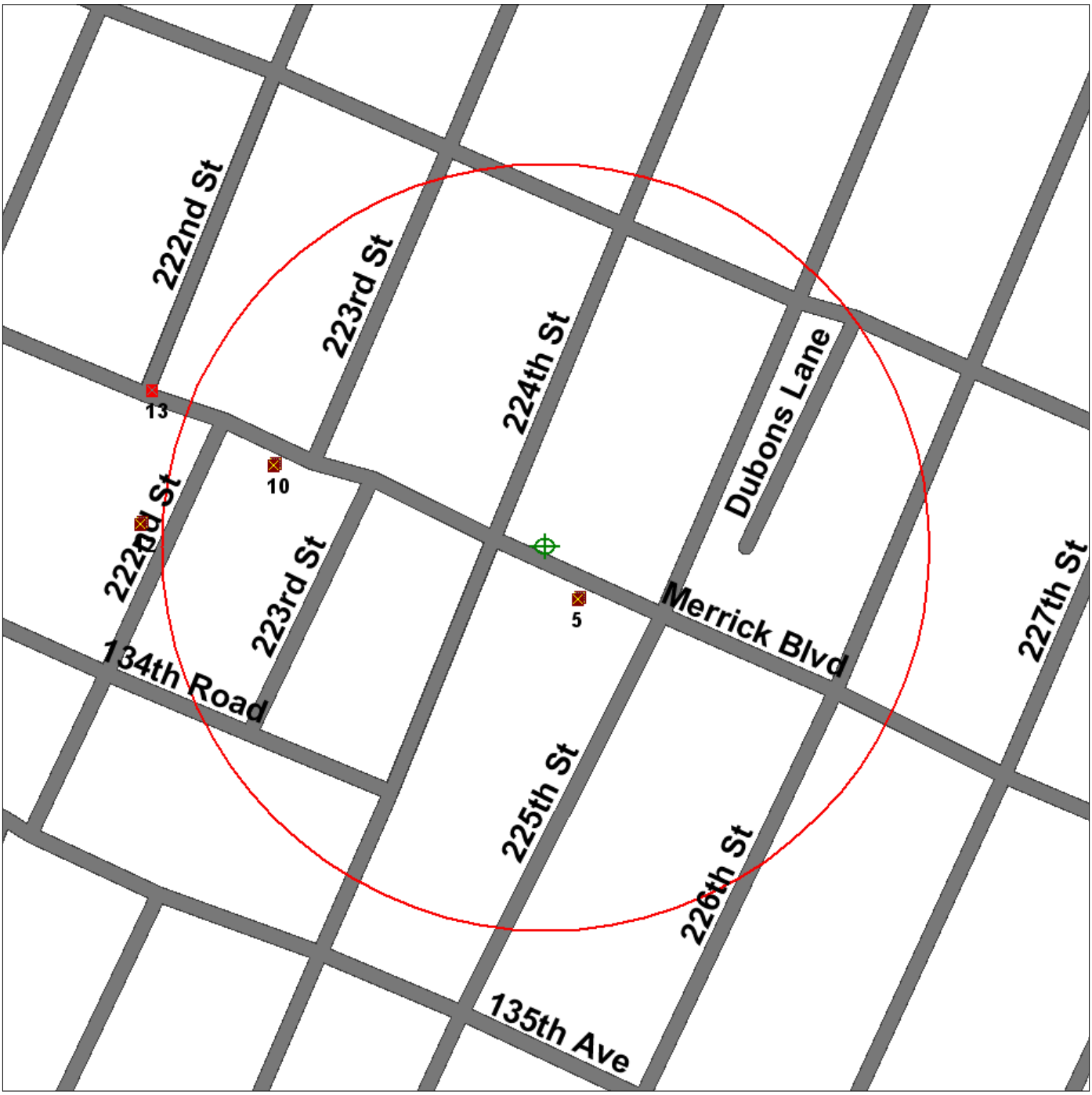
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.12 Mile Radius

AAI: SPILLS90, ERNS

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

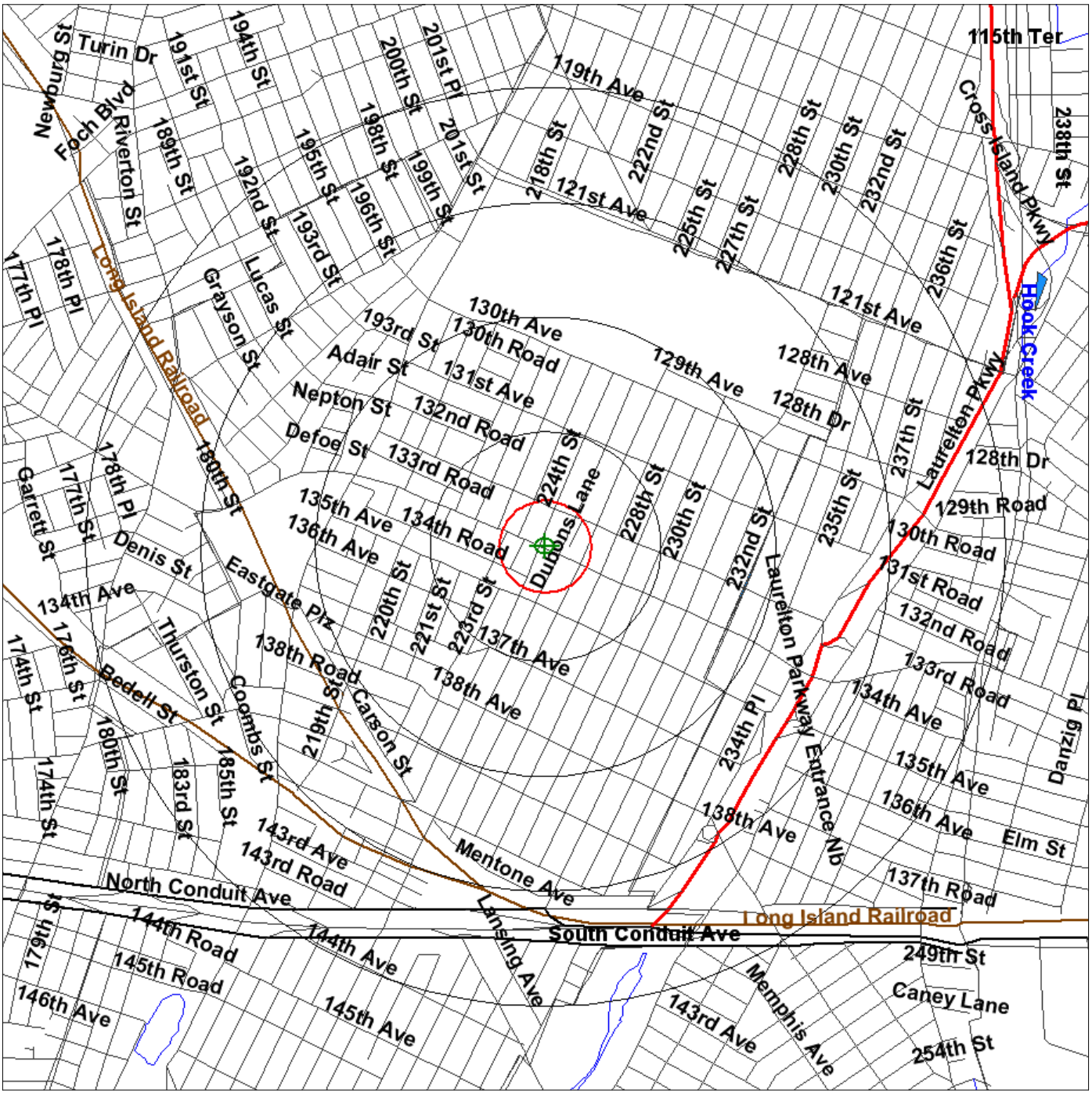
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413

Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

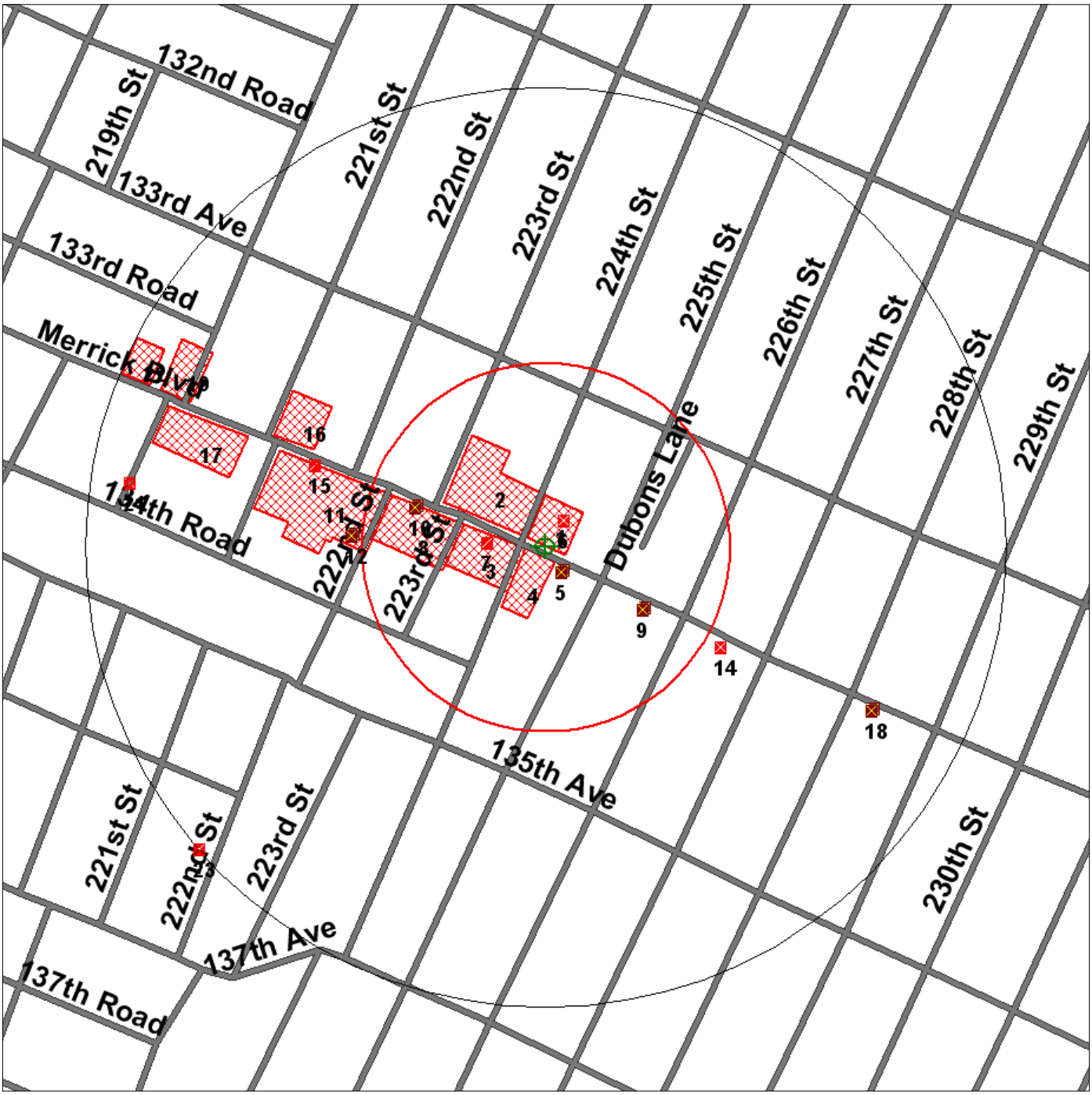
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

224-01 MERRICK BLVD, SPRINGFIELD GARDENS NY 11413



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.677856 Longitude: -73.745408) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

12.6 Historical Research Documentation
(Fire Insurance Maps, City Directory Information, aerial photographs, etc..)

Environmental FIRSTSEARCH

REGIONAL FOCUS + NATIONAL SERVICE

CITY DIRECTORY REVIEW

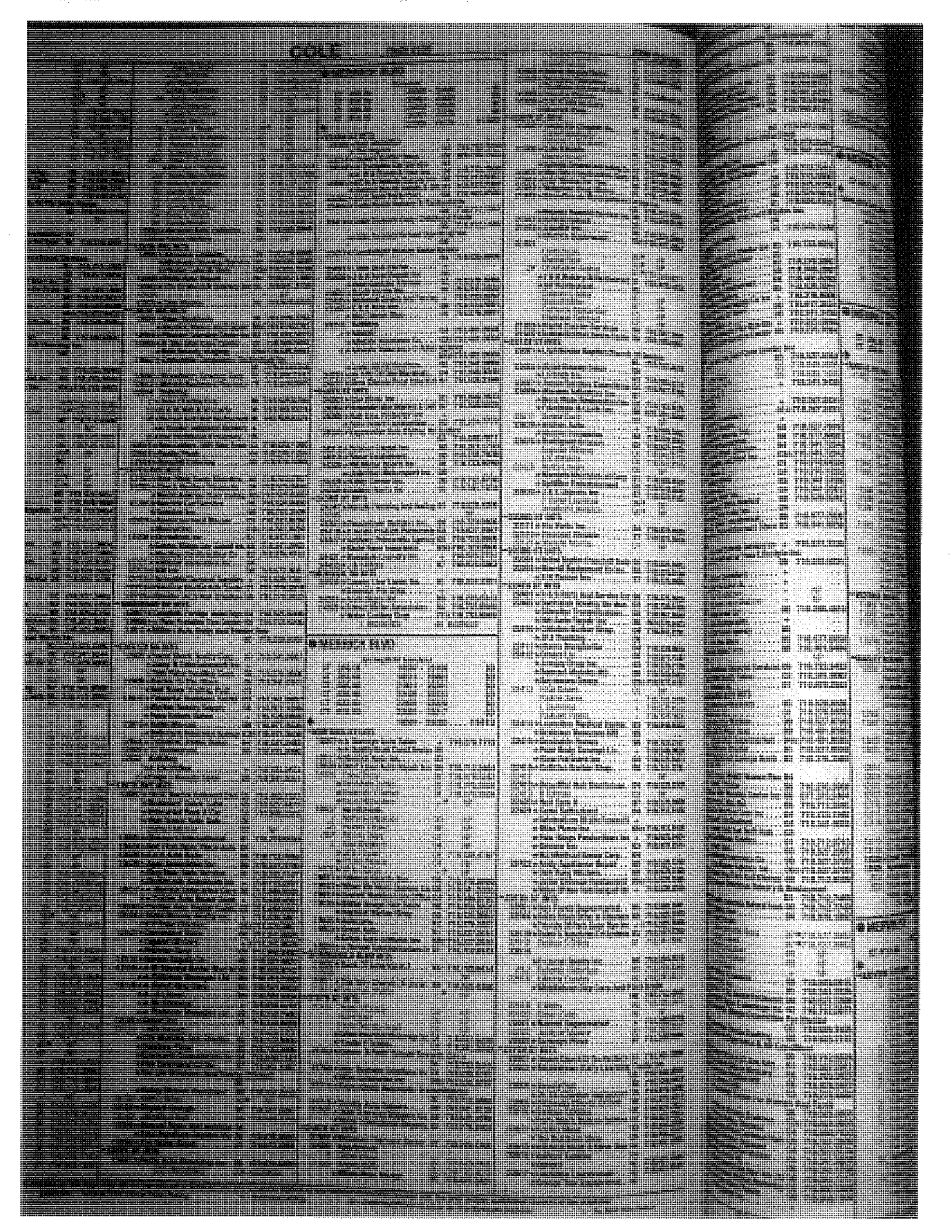
Report Date: February 7, 2012
Client Job Number: 12-123
FirstSearch Index Number: 297915
Site Address(es): 224-01/09 Merrick Blvd
Springfield Gardens, NY 11413

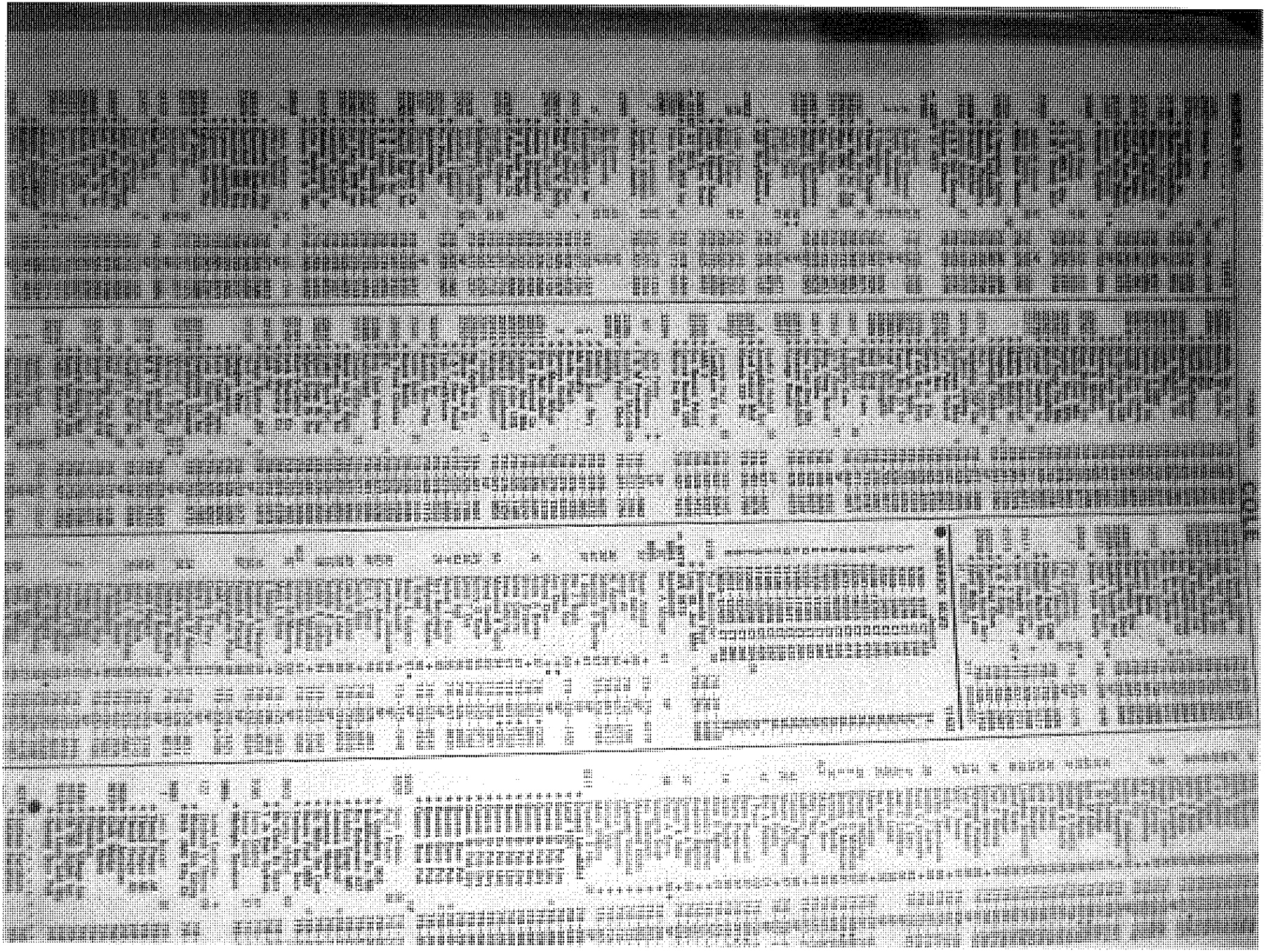
A search was conducted for the subject area noted above to identify any Historical City Directory coverage/tenant information maintained at national repositories, local city/town libraries and/or various public sources.

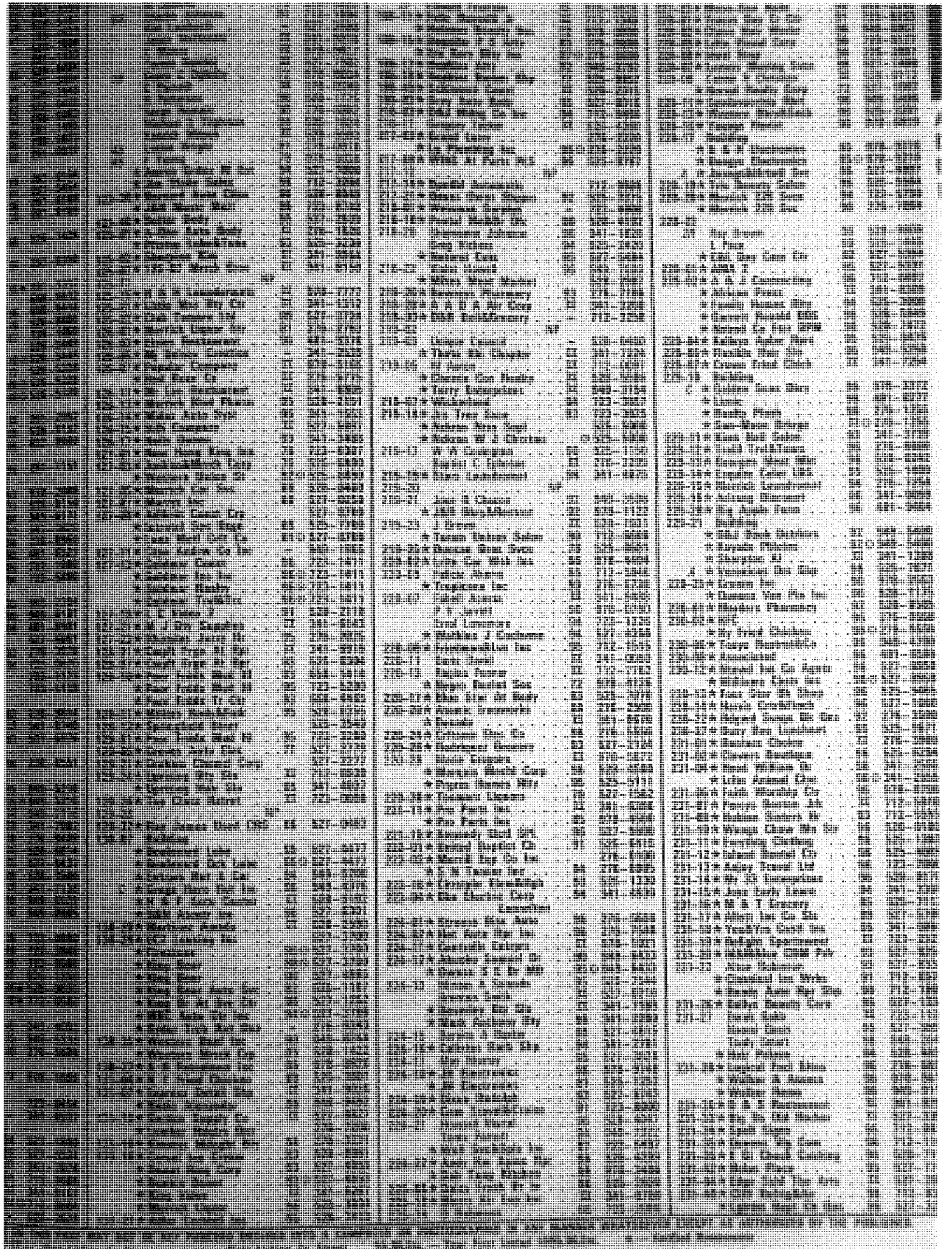
The following information is the result of the search:

YEAR / SOURCE	CLOSEST LOWER ADDRESS LISTINGS	SUBJECT ADDRESS(ES)	CLOSEST UPPER ADDRESS LISTINGS
2008/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)
2003/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)
1998/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)
1992/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)

Notes: No further coverage available







● BERWICK BLVD 11413

Jamaica
Jamaica Pl

11423-22424 CT 640
11423-22424 CT 642
E 11423-22424 CT 643
S 11423-22424 CT 644
⊕ BERWICK BLVD 11413

— 22470 —

— 22471 —

— 22472 —

— 22473 —

— 22474 —

— 22475 —

— 22476 —

— 22477 —

— 22478 —

— 22479 —

— 22480 —

— 22481 —

— 22482 —

— 22483 —

— 22484 —

— 22485 —

— 22486 —

— 22487 —

— 22488 —

— 22489 —

— 22490 —

— 22491 —

— 22492 —

— 22493 —

— 22494 —

— 22495 —

— 22496 —

— 22497 —

— 22498 —

— 22499 —

— 22500 —

— 22501 —

— 22502 —

— 22503 —

— 22504 —

— 22505 —

— 22506 —

— 22507 —

— 22508 —

— 22509 —

— 22510 —

— 22511 —

— 22512 —

— 22513 —

— 22514 —

— 22515 —

— 22516 —

— 22517 —

— 22518 —

— 22519 —

— 22520 —

— 22521 —

— 22522 —

— 22523 —

— 22524 —

— 22525 —

— 22526 —

— 22527 —

— 22528 —

— 22529 —

— 22530 —

— 22531 —

— 22532 —

— 22533 —

— 22534 —

— 22535 —

— 22536 —

— 22537 —

— 22538 —

— 22539 —

— 22540 —

— 22541 —

— 22542 —

— 22543 —

— 22544 —

— 22545 —

— 22546 —

— 22547 —

— 22548 —

— 22549 —

— 22550 —

— 22551 —

— 22552 —

— 22553 —

— 22554 —

— 22555 —

— 22556 —

— 22557 —

— 22558 —

— 22559 —

— 22560 —

— 22561 —

— 22562 —

— 22563 —

— 22564 —

— 22565 —

— 22566 —

— 22567 —

— 22568 —

— 22569 —

— 22570 —

— 22571 —

— 22572 —

— 22573 —

— 22574 —

— 22575 —

— 22576 —

— 22577 —

— 22578 —

— 22579 —

— 22580 —

— 22581 —

— 22582 —

— 22583 —

— 22584 —

— 22585 —

— 22586 —

— 22587 —

— 22588 —

— 22589 —

— 22590 —

— 22591 —

— 22592 —

— 22593 —

— 22594 —

— 22595 —

— 22596 —

— 22597 —

— 22598 —

— 22599 —

— 22600 —

— 22601 —

— 22602 —

— 22603 —

— 22604 —

— 22605 —

— 22606 —

— 22607 —

— 22608 —

— 22609 —

— 22610 —

— 22611 —

— 22612 —

— 22613 —

— 22614 —

— 22615 —

— 22616 —

— 22617 —

— 22618 —

— 22619 —

— 22620 —

— 22621 —

— 22622 —

— 22623 —

— 22624 —

— 22625 —

— 22626 —

— 22627 —

— 22628 —

— 22629 —

— 22630 —

— 22631 —

— 22632 —

— 22633 —

— 22634 —

— 22635 —

— 22636 —

— 22637 —

— 22638 —

— 22639 —

— 22640 —

— 22641 —

— 22642 —

— 22643 —

— 22644 —

— 22645 —

— 22646 —

— 22647 —

— 22648 —

— 22649 —

— 22650 —

— 22651 —

— 22652 —

— 22653 —

— 22654 —

— 22655 —

— 22656 —

— 22657 —

— 22658 —

— 22659 —

— 22660 —

— 22661 —

— 22662 —

— 22663 —

— 22664 —

— 22665 —

— 22666 —

— 22667 —

— 22668 —

— 22669 —

— 22670 —

— 22671 —

— 22672 —

— 22673 —

— 22674 —

— 22675 —

— 22676 —

— 22677 —

— 22678 —

— 22679 —

— 22680 —

— 22681 —

— 22682 —

— 22683 —

— 22684 —

— 22685 —

— 22686 —

— 22687 —

— 22688 —

— 22689 —

— 22690 —

— 22691 —

— 22692 —

— 22693 —

— 22694 —

— 22695 —

— 22696 —

— 22697 —

— 22698 —

— 22699 —

— 22700 —

— 22701 —

— 22702 —

— 22703 —

— 22704 —

— 22705 —

— 22706 —

— 22707 —

— 22708 —

— 22709 —

— 22710 —

— 22711 —

— 22712 —

— 22713 —

— 22714 —

— 22715 —

— 22716 —

— 22717 —

— 22718 —

— 22719 —

— 22720 —

— 22721 —

— 22722 —

— 22723 —

— 22724 —

— 22725 —

— 22726 —

— 22727 —

— 22728 —

— 22729 —

— 22730 —

— 22731 —

— 22732 —

— 22733 —

— 22734 —

— 22735 —

— 22736 —

— 22737 —

— 22738 —

— 22739 —

— 22740 —

— 22741 —

— 22742 —

— 22743 —

— 22744 —

— 22745 —

— 22746 —

— 22747 —

— 22748 —

— 22749 —

— 22750 —

— 22751 —

— 22752 —

— 22753 —

— 22754 —

— 22755 —

— 22756 —

— 22757 —

— 22758 —

— 22759 —

— 22760 —

— 22761 —

— 22762 —

— 22763 —

— 22764 —

— 22765 —

— 22766 —

— 22767 —

— 22768 —

— 22769 —

— 22770 —

— 22771 —

— 22772 —

— 22773 —

— 22774 —

— 22775 —

— 22776 —

— 22777 —

— 22778 —

— 22779 —

— 22780 —

— 22781 —

— 22782 —

— 22783 —

— 22784 —

— 22785 —

— 22786 —

— 22787 —

— 22788 —

— 22789 —

— 22790 —

— 22791 —

— 22792 —

— 22793 —

— 22794 —

— 22795 —

— 22796 —

— 22797 —

— 22798 —

— 22799 —

— 22800 —

— 22801 —

— 22802 —

— 22803 —

— 22804 —

— 22805 —

— 22806 —

— 22807 —

— 22808 —

— 22809 —

— 22810 —

— 22811 —

— 22812 —

— 22813 —

— 22814 —

— 22815 —

— 22816 —

— 22817 —

— 22818 —

— 22819 —

— 22820 —

— 22821 —

— 22822 —

— 22823 —

— 22824 —

— 22825 —

— 22826 —

— 22827 —

— 22828 —

— 22829 —

— 22830 —

— 22831 —

— 22832 —

— 22833 —

— 22834 —

— 22835 —

— 22836 —

— 22837 —

— 22838 —

— 22839 —

— 22840 —

— 22841 —

— 22842 —

— 22843 —

— 22844 —

— 22845 —

— 22846 —

— 22847 —

— 22848 —

— 22849 —

— 22850 —

— 22851 —

— 22852 —

— 22853 —

— 22854 —

— 22855 —

— 22856 —

— 22857 —

— 22858 —

— 22859 —

— 22860 —

— 22861 —

— 22862 —

— 22863 —

— 22864 —

— 22865 —

— 22866 —

— 22867 —

— 22868 —

— 22869 —

— 22870 —

— 22871 —

— 22872 —

— 22873 —

— 22874 —

— 22875 —

— 22876 —

— 22877 —

— 22878 —

— 22879 —

— 22880 —

— 22881 —

— 22882 —

— 22883 —

— 22884 —

— 22885 —

— 22886 —

— 22887 —

— 22888 —

— 22889 —

— 22890 —

— 22891 —

— 22892 —

— 22893 —

— 22894 —

— 22895 —

— 22896 —

— 22897 —

— 22898 —

— 22899 —

— 22900 —

— 22901 —

— 22902 —

— 22903 —

— 22904 —

— 22905 —

— 22906 —

— 22907 —

— 22908 —

— 22909 —

— 22910 —

— 22911 —

— 22912 —

— 22913 —

— 22914 —

— 22915 —

— 22916 —

— 22917 —

— 22918 —

— 22919 —

— 22920 —

— 22921 —

— 22922 —

— 22923 —

— 22924 —

— 22925 —

— 22926 —

— 22927 —

— 22928 —

— 22929 —

— 22930 —

— 22931 —

— 22932 —

— 22933 —

— 22934 —

— 22935 —

— 22936 —

— 22937 —

— 22938 —

— 22939 —

— 22940 —

— 22941 —

— 22942 —

— 22943 —

— 22944 —

— 22945 —

— 22946 —

— 22947 —

— 22948 —

— 22949 —

— 22950 —

— 22951 —

— 22952 —

— 22953 —

— 22954 —

— 22955 —

— 22956 —

— 22957 —

— 22958 —

— 22959 —

— 22960 —

— 22961 —

— 22962 —

— 22963 —

— 22964 —

— 22965 —

— 22966 —

— 22967 —

— 22968 —

— 22969 —

— 22970 —

— 22971 —

— 22972 —

— 22973 —

— 22974 —

— 22975 —

— 22976 —

— 22977 —

— 22978 —

— 22979 —

— 22980 —

— 22981 —

— 22982 —

— 22983 —

— 22984 —

— 22985 —

— 22986 —

— 22987 —

— 22988 —

— 22989 —

— 22990 —

— 22991 —

— 22992 —

— 22993 —

— 22994 —

— 22995 —

— 22996 —

— 22997 —

— 22998 —

— 22999 —

— 23000 —

— 23001 —

— 23002 —

— 23003 —

— 23004 —

— 23005 —

— 23006 —

— 23007 —

— 23008 —

— 23009 —

— 23010 —

— 23011 —

— 23012 —

— 23013 —

— 23014 —

— 23015 —

— 23016 —

— 23017 —

— 23018 —

— 23019 —

— 23020 —

— 23021 —

— 23022 —

— 23023 —

— 23024 —

— 23025 —

— 23026 —

— 23027 —

— 23028 —

— 23029 —

— 23030 —

— 23031 —

— 23032 —

— 23033 —

— 23034 —

— 23035 —

— 23036 —

— 23037 —

— 23038 —

— 23039 —

— 23040 —

— 23041 —

— 23042 —

— 23043 —

— 23044 —

— 23045 —

— 23046 —

— 23047 —

— 23048 —

— 23049 —

— 23050 —

— 23051 —

— 23052 —

— 23053 —

— 23054 —

— 23055 —

— 23056 —

— 23057 —

— 23058 —

— 23059 —

— 23060 —

— 23061 —

— 23062 —

— 23063 —

— 23064 —

— 23065 —

— 23066 —

— 23067 —

— 23068 —

— 23069 —

— 23070 —

— 23071 —

— 23072 —

— 23073 —

— 23074 —

— 23075 —

— 23076 —

— 23077 —

— 23078 —

— 23079 —

— 23080 —

— 23081 —

— 23082 —

— 23083 —

— 23084 —

— 23085 —

— 23086 —

— 23087 —

— 23088 —

— 23089 —

— 23090 —

— 23091 —

— 23092 —

— 23093 —

— 23094 —

— 23095 —

— 23096 —

— 23097 —

— 23098 —

— 23099 —

— 23100 —

1985

MERRICK BLVD (AV) (RD)

SPRINGFIELD

ZIP CODE 11434
HSE # 114-00 TO 134-99

AREA CODE 718

Andrews A 528-7874
Beaufort Glorine 978-1897
Boyd Lajos 527-0291
Brown Marie 527-5314
Clark C 712-7287
Daniels Roddy 276-5540
Galloway Juanita E 527-6103
Henderson Ruby 712-0772
Holiday Connie 723-7591
James Channie 723-7202
Johnson Dorothy 528-8217
Jones C 276-6516
Kesler Lincoln 528-2705
Miller D 528-3760
Moore Clarence 723-9073
Mungo M 528-4696
Neely L 527-0657
Norman Ernestine 712-4230
Oglesby Grace C 978-6024
Pittman K 723-1801
Richie Raymond 525-5610
Rivers Ulysses 978-8708
Robinson L 525-3467
Sewell Kwame 527-8856
Simpson Doreen 978-4947
Smith F 712-8605
Smith James 712-4901
Stallworth Shirley M 481-9327
Thornhill M 712-3989
Towles Adelaide 528-3699
White J 712-3952
Williamson Christine 527-7053
Woodfork Pennie 723-0286
Wright Theodore 528-2145
Young F 978-3028
Bernard Auto Collision 528-8949
Skip's Auto Body Inc 525-9331
Skip's Auto Body Inc 528-8224

25TH AV 125-01

Economy Auto Repr 525-7786
Thomas Towing Svce 527-0717
J T Grocery 723-1023
Moss Grocery 481-9880
Enterprise Lounge And Disco 525-5834

26TH AV 126-01

Revels Liquor Store Inc 276-2763
Stephen's Barber Shop 525-5227
Josey's Grocery Store 525-0486
T & M Social Club Inc 341-2923
Christian Electric Co Inc 525-1600
G Papas Svce Sta Inc 525-2381
Emerald Video 723-3399
Capri Enterprises Inc 527-9218
Anthony Neville MD 527-2020
Merrick Blvd Pharmacy 528-2151

27TH AV 127-01

New Hong King Inn 723-0307
Anderson & Merrick Check Cashing Corp 525-8490
Wilkinson Reginald 723-9638
Adelhardt Constr Corp 527-8700
International Security Design Ltd 525-7700
Luna Metal Craft Co Inc 527-8700
Mattie's Beauty Rama 525-9858
Milliner Basil 712-1847
Red Seal Laundry The 528-5411
D T Mini Market 527-3626
Diamond Private Cab Co 525-9500

MERRICK BLVD (AV) (RD)

SPRINGFIELD

ZIP CODE 11434
HSE # 114-00 TO 134-99

129TH AV 129-01

129-01 Lewans Auto Collision Inc 525-5066
129-02 Polar Bear Tours Inc 525-8193
129-04 Windsor Motors 525-8070
129-05 Grove's Auto Electric 527-2779
129-21 Graham Chemcl Corp 527-2277
129-26 Yates Liquors 276-4813
129-32 Ray James used cars 527-0483

130TH AV 130-01

130-07 Big Mama's 276-3100
130-07 C & B Auto Repr Inc 527-2176
130-20 Negrene Meat Mkt 978-7122
130-28 All State Inc 723-1234
130-28 Original Auto Reprs 723-2539
130-28 Queens Japanese Cars 341-2995
130-29 ECT Leasing Inc 527-3700
130-29 Excalibur Auto Works Inc 525-3355
130-29 King Bear Auto Svce 525-1107
130-29 King Bear Auto Svce 525-9000
130-29 King Bear Auto Svce Center 527-3700
130-29 Milfra Assocs Inc 527-4985
130-29 Top Notch Transmissions Inc 341-1058
130-35 Best Homecraft Co 527-5777
130-35 T S S Department Stores— T S S Springfield Gardens 276-6000
130-39 Springfield Power Test 723-0767

130-50 130TH RD

FARMERS BLVD 131-01

131-02 White John L 525-0546
131-04 N Y Fried Chicken 525-3801
131-07 Kausar Svce Sta 525-8544
131-12 Nazkhan Repairable Cars 525-8732
131-15 Lumber Headquarters— Queens Stores— Call 276-7200
131-21 Corkhill William J Co Inc screens & storm sash 528-7413
131-31 Springfield Lumbr Inc 527-6400
131-31 Wolsky Harry Inc stair builders 527-6400
131-31B Hinz Co 723-8574
131-34 Hart T 276-3253
131-40 Reid Eddis 525-2205

BELKNAP 132-01

132-05 United Parcel Svce 276-3088
132-20 Apex 276-3400
132-20 Esquire Shoe Polish 276-3400
132-20 Evangeline Dyes 276-3400
132-20 Knomark Inc 276-3400
132-20 Lady Esquire Instant Shoe Color 276-3400
132-20 Odell Inc 276-3400
132-20 Tintex Fabric Dyes 276-3400
132-20 Trol 276-3400
132-20 Ty-D-Bol 276-3400

180TH 133-01

L I R R 134-01

134-31 Roth's Auto Wrecking Inc 525-6300
134-31 Roth's Foreign Auto Salvage Inc 525-1200

ZIP CODE 11413
HSE # 135-00 TO 232-99

MONTAUK 185-01

185-11 R J Y 525-8811
185-11 Williams Willie 723-9739
185-21 Big's Auto Body 527-2316
185-27 Beary L B 525-8468

PINEVILLE AV 186-01

186-11 Helena's Beauty

MERRICK BLVD (AV) (RD)

SPRINGFIELD

ZIP CODE 11413
HSE # 135-00 TO 232-99

216-02 National Westminster Bank USA— Branches— Springfield Gardens 978-8900
216-03 O & J Holding Co Inc 712-9466
216-11 One Way Church Of Christ 525-4260

217TH 217

217-03 Grand Larry 27
217-03 L G Plumbing Inc 27
217-09 A N O Auto Parts Plus Inc 525-8767
217-12 Weston Robert 522-4105
217-14 Dependable Automatic Transmissions 712-9686
217-15 Stan's Auto Body 525-4532
217-21 Graf Air Assocs Inc— Warehouse 656-6930

218TH 218-01

218-01 Amerford International Corp air cargo 528-0800
218-10 United States Government— Postal Service— Main And Branch Post Offices— Jamaica— Springfield Gardens Station 528-4192
218-20 Townsend Kenneth R 528-2958
218-20 Vickers Greg 525-2420
218-22 Ford D 723-8657
218-22 Howell Ethel 723-3375
218-22 Mike's Meat Mkt 528-2987
218-24 Camelot Beauty Salon 723-7274
218-26 J M & G Social Inc 276-9557
218-28A New China Take Out Restaurant 978-0335

219TH 219-01

219-05 Brother & Sister Hair Salon 525-8379
219-05 Brother's & Sisters Hair Salon 525-9013
219-07 Wasen Beck Transit Corp 525-8033
219-07 Woods Nathaniel 712-7547
219-14 Nickerson Nursery Supl Corp 525-5000
219-14 Nickerson Wm J christms trees 525-5000
219-17 Ephesus Baptist Church 276-2299
219-21 Ruby's Restrnt 978-3904
219-23 F & B Car Svce 528-8136
219-23 Timmons B 712-9020
219-23A Bus Stop 712-0190
219-25 Duncan Brothers Svce Center 525-0681

220TH 220-01

220-02 Laurelton Car Wash Inc 978-4404
220-05 Atlee Y 341-0236
220-05 Bebbs Decorators 527-5736
220-05 Elmore Helen L Mrs 341-2157
220-07 Calhoun Willie 341-2652
220-13 Hodges E 525-2261
220-13 Negro Benevolent Soc Of The Dept Of Sanitation Inc 978-4126
220-17 Blue Star Auto Body Inc 525-7070
220-20 F J Washington Inc 528-5740
220-24 Craftsmen Electric Co Inc 276-5556
220-24 Profile Electric Inc 723-9400
220-26 Edward Hunter's Grocery 341-0956
220-26 Michel L 528-2307
220-28 Beauvais Bertha 528-0010
220-28 Stubbs Janice 712-2718
220-30 Toomers Liquors 527-1562

221ST 221-01

221-11 Pro Foreign Auto Parts 978-4000
221-11 Pro Parts Inc 978-4500
221-18 Kennedy Electl Supl Corp 527-5600

MERRICK BLVD (AV) (RD)

SPRINGFIELD

ZIP CODE 11413
HSE # 135-00 TO 232-99

222-16 Christopher Robin Acadmy College Preparatory 525-1330
222-16 Christopher Robin Elem & High Schl 525-1330
222-16 Christopher Robin Tutoring Schl 525-1330
222-16 Dolphin Gym 525-1330
222-16 Mathematics Tutoring Cntr 525-1330
222-16 Reading & Arithmetic Improvement Cntr 525-1330

223RD 223-01

223-01 S N Tannor Inc 276-5200
223-[illegible] Victory Church Of Christ 528-8310
223-[illegible] Church's Fried Chicken 528-1984

224TH 224-01

224-01 A & S Strauss Assoc 276-5656
224-02 Drive Line Motors Inc 276-7548
224-02 Drive Line Motors Inc 525-9890
224-10 Dah Tung Corp 527-7863
224-11 Laurel Magazines 527-2036
224-13 Ambroise Geraldine 978-5015
224-13 Gerry's Hair Weaving Studio 276-9606
224-14 Federation Of Laurelton Block Association 528-4151
224-15 Brooks Erald 276-2271
224-17 M & S Mechanical 723-3172
224-17 Williams Maxine 712-6755
224-18 J H Electronics 525-1252
224-18 J H Electronics 978-9748
224-19 Ferraro Eric 712-3520
224-19 King Kenroy 525-1246
224-19 Laurelton Senior Sportsman Club Inc 525-0394
224-20 Comfort-Transit Co Inc 528-8178
224-21 Beckford Valma 481-8718
224-21 Boyd W R 276-0291
224-22 Andy Home Apinc Repr 528-4299
224-22 Dah Tung Kitchen 978-3496

LAURELTON

225TH 225-01

225-01 Key Food Store 723-7366
225-06 Daisy Fresh Drive-In Cleaners 525-2020
225-10 Walker Michael 276-1193
225-12 D & D Shipping Co 712-9627
225-12 Dean's Overseas Shippers Inc 525-3375
225-14 Byrne & Sons plmbng 528-5076
225-14 Geter A Williams 341-1674
225-14 Island Insulation Corp 528-5076
225-14 Jem Travel Rail & Bus Agency 723-8000
225-14 Reid's Sewer Svce 528-5076
225-16 Bernier Bernard Ins 527-5000
225-16 Middleton's Day Care And First Grade 712-4845
225-18 Samuels V M 527-1622
225-20 Graver Sign Co 528-5344
225-23 Bess Video Inc 978-9268
225-23 Neighborhood Housing Svces Of N Y Inc Laurelton Div 978-6378

226TH 226-01

226-02 Federation Of Laurelton Youth 528-8450
226-04 N Y City Of— Social Svces Dept Of— General Social Service— GSS Ofc Q8/ 13 712-0103
226-05 Razzmatazz Laundromat 481-9616
226-06 Merrick West Indian Bakery 528-9540
226-08 Beauty Hut 525-9416
226-08A Pugh Roy 528-5014
226-09 Rainbow Tropical Ice Cream & Deli 527-1953

1975

SPRINGFIELD

ZIP CODE 11413
HSE # 135-00 TO 232-99

MONTAUK 185—01

185-06 Woodcraft Co LA 8-2836
185-21 Walcott Svce Sta 525-9505
185-21 Walcott's Svce Sta LA 7-2316
185-22 Wilson Ernest 525-7315
185-25 Roberts Goether B Jr 276-7713

PINEVILLE AV 186—01

186-11 Helena's Beauty Box 978-0990
186-15 Fine Leon Indry LA 8-3340
186-35 Grand Drapery Svce LA 8-3340
186-15 Grand Laundry & Cleaners LA 8-3340
186-45 Glenn Motors Inc 525-7500
186-45 Glenn Motors Inc 516 285-6672
186-45 Glenn Motors Inc
wheel parts 525-7200

RIDGEDALE AV 188—01

188-03 Blue Star Auto Body 525-9600

SPRINGFIELD BLVD 216—01

216-01 Dowdy & Sons Svce Sta 525-9478
216-02 National Bank Of North America—
Main Office 528-2600
Branches—
Split Gdns 978-8900
216-11 Remland & Moskowitz
dntl ofc 527-5454

217TH 217—01

217-03 Grand Larry b 276-2220
217-03 L G Plumbing Inc 276-2220
217-09 Atlas Pump Repr Co 525-8265
217-09 Atlas Pump Repr Co 525-8888
217-14 Dependable Automtc
Transmissions LA 5-9558
217-15 Blue Star Auto Body Inc 525-7070

218TH 218—01

218-01 Amerford Air Cargo 528-0800
218-01 Amerford International Corp
528-0800
218-01 Ginsberg Lawrence
customs broker 656-6124
218-01 Lawrence Forwarding Corp 656-6124
218-04 Craftsman Hdwr Inc LA 8-1579
218-08 F & G Auto Sales Co
used cars LA 8-7810
218-20 Ben's Quality Cleaners 525-9095
218-22 Cleghorn H 723-5711
218-22 Ford O 723-8657
218-22 Mike's Meat Mkt 528-2987
218-24 Camelot Beauty Salon 723-7274
218-28A Cap Car Svce 525-9734
218-28A Cap Car Svce 527-5219
218-30 John's Tavern 525-9773

219TH 219—01

219-03 P & J Display Co 723-7816
219-05 Thaler Sylvia E LA 8-3684
219-07 Bennett D 978-2638
219-07 Smith Emmit 978-0295
219-14 Nickerson Wm J
christms trees LA 5-5000
219-14 Nickerson's Nursery LA 5-5000
219-15 Today's Grocer 723-6519
219-17 Covington W W Rev 276-2299
219-23 Allen Gloria J 527-2574
219-23 Dunn-Rite Exterminating Co
529-3902
219-23 Felton C 528-0982
219-23 Jamerican Tv & Radio Repr
528-0959
219-25 Slam Auto Svce Sta 525-9455

220TH 220—01

220-01 Goz Ben glass dlrs LA 5-0630
220-01 Laurelton Glass Wks LA 5-0630
220-02 Laurelton Car Wash Inc 978-4404
220-05 Bebbs Decorators 527-5736
220-05 Elmore Helen L Mrs 341-2157
220-11 Beckford Charles 528-0381
220-13 Berkeley S 528-5242
220-13 Negro Benevolent Soc Of The
Dept Of Sanitation Inc 978-4126
220-13 Walker Richard 276-4322
220-17 K & G Auto Body 341-3678
220-20 B & B Auto Body 978-1266
220-24 Muhammad's Temple Of Islam 7T
527-4296
220-26 Hodge's Food Store 978-0792
220-28 Williams Samuel 528-6797
220-30 Wallace & Wallace Inc
tile store 527-1562

221ST 221—01

221-11 Calamis Enterprises 978-4500
221-18 Continental Davis Imported Tires
LA 8-0021
221-18 Davis Tire Svce Inc sho LA 8-0021
221-18 Meon Inc 528-0591
221-18 Metzeler Imported Tires 528-0591

222ND 222—01

222-01 Tator Funeral Homes Inc LA 7-7777
222-01 Tator Wm H funrl dir LA 7-7777

SPRINGFIELD

ZIP CODE 11413
HSE # 135-00 TO 232-99

223RD 223—01

223-01 Laurel Motors Inc
used cars LA 7-2003
223-04 United States Government—
Post Office Dept—
Branch Post Office—
Spfld Gdns LA 8-4192
223-09 Tambro Svce Sta Inc 527-8675
223-10 M & D Auto Body Shop Inc 978-2576
223-14 Corona Auto Sales 276-9814
223-14 St Albans Svce Sta 276-9814

224TH 224—01

224-01 Chrysler-Lrltn LA 8-2407
224-01 Laurel Motors Inc LA 8-2407
224-01 Laurel Motors Inc
Parts Dept LA 8-7257
224-01 Laurel Motors Inc
Svce Dept LA 8-7474
224-01 Laurel Motors Inc
parts dept LA 8-7257
224-01 Laurel Motors Inc
svce dept LA 8-7474
224-01 Zippy-Rent-A-Car—
Rent Offices—
Lrltn LA 8-2407
224-02 Drive Line Motors Inc 276-7548
224-02 Drive Line Motors Inc 525-9890
224-13 Burstein Karen Senator b 528-4118
224-13 Federation Of Laurelton Block
Assn 528-4151
224-13 N Y City Of—
Social Svces Dept Of—
Senior Centers Div Of—
Laurelton-Rosedale 527-7577
224-13 Scheuer James H Congressman
b 528-0275
224-13 Tramontano Josephine 528-0124
224-14 Chapman & Chapman Inc 525-4175
224-16 Chapman & Chapman Inc 525-2100
224-18 Uni-Call Research Inc 723-5600
224-19 Leeds Mark K atty LA 5-1641
224-19 Leeds Of Laurelton
rl est & apprsl LA 5-3424
224-19 National Federation Of Real
Estate Boards Inc 723-1055
224-19 New York State Federation Of
Real Estate Boards Inc 723-1055
224-19 Queens County Federation Of
Real Estate Boards Inc 723-1055
224-20 Howard Photo Studio LA 8-1944
224-21 Uwanawich T 276-0286
224-21 Ward P 341-2077
224-22 Loon's Garden 525-9766
224-22 Loon's Garden Restrnt 978-4282

LAURELTON

225TH 225—01

225-01 Nahred Supermarket Inc 723-7368
225-03 Nahred Supermarket LA 5-9751
225-06 Daisy Fresh Drive-In Cleaners
LA 5-9491
225-10 N Y City Of—
Mayors Ofc—
Neighborhood Services Ofc Of
Laurelton 978-5900
225-12 Laurelton Community Volunteer
Ambulance Corp 525-3000
225-14 Byrne & Sons plmbg LA 5-4600
225-14 Byrne & Sons plmbg LA 8-5076
225-14 Professional Property Inspctrs
Inc 525-7755
225-14 Reid's Sewer Svce LA 8-5076
225-16 Berner Bernard ins LA 7-5000
225-16 Kurz Max Inc ins LA 7-5000
225-18 Merrick Televsn & Marine Radio
LA 8-1022
225-19 Ankle's Upholstery 525-7295
225-20 Skillings Emilio 525-6863
225-22 Morales Andrea 276-6494
225-22 Rite Auto Sales 525-8824
225-25 Tesch Robt C dntst LA 5-0122
225-25 Weinstock Harris D atty 527-7800

226TH 226—01

226-01 Robinson's Candy Store 527-1573
226-04 Custom Communications Inc
978-9222
226-04 Laurelton Constr Corp 528-3613
226-04 Laurelton Electric Inc 528-4568
226-04A Kruonikoff & Sons
plmbrs LA 8-9709
226-05 R & M Laundromat 276-5891
226-05A-H Miller Constr Corp 978-2305
226-07 Samuels Tailor Shop LA 8-5588
226-08 Berkoff Realty Inc 525-2261
226-10 Merrick Fish & Chips Inc 978-5183
226-13 Phillips Keith A DDS 723-3519
226-15 Esther's Beauty Salon 525-8747
226-17 Kennedy-King Democratic Club
Inc 528-9225
226-18 Hub Aluminum Equip Corp 723-4343
226-19 Valley Auto School 978-7900
226-21 Preferred Packing Svce Inc
kosher mts 341-2922

227TH 227—01

227-03 227 Car Svce 525-9588
227-08 Brennan & Beubner attys LA 7-4300
227-08 Brennan Wm T atty LA 7-4300

LAURELTON

ZIP CODE 11413
HSE # 135-00 TO 232-99

AREA CODE 212

228-07 Ace Window & Door Co Inc LA 8-0570
228-07 Bochner Jos FI 1-1855
228-07 Morris David veneta blds LA 8-0570
228-09 North Herbert W 528-9313
228-09 North Herbert W atty 527-1007
228-09 Norval Realty Corp 527-1007
228-09 W R K Elecel Corp 723-5092
228-11 Raymond Crespo Meat Mkt 276-3675
228-13 Tootsie's Hairstylist 525-9459
228-15 29th A-D Regular Democratic
Club 341-1250
228-19 Helen & Sam's Stationery 525-9273
228-20 Laurelton Bus Co Inc LA 7-2220
228-20 Laurelton Bus Co Inc LA 8-1234
228-20 Laurelton Svce Sta LA 5-9547
228-23 Esquire French Dry Cleaners
LA 8-0181
228-23 Esquire French Tailors LA 8-0181

229TH 229—01

229-02 Daley Home Applnces Co LA 5-0611
229-02 Daley Servicenter LA 5-0611
229-02 Dubner Ben B podiatrst ofc LA 8-7472
229-03 Woolworth F W Co—
No 1990 LA 8-3359
229-04 White's Realty 723-0663
229-06 The Hairpin AR 6-9868
229-07 Circle Purchasing Co 978-4400
229-07 Circle-Stanmar Inc 978-4400
229-07 Dial-A-Brand Inc 978-4400
229-07 Dial-A-Brand Inc 978-4546
229-10 Esquire Color Labs Inc 525-1400
229-11 Ameri-Tropical dstl 525-9082
229-12 Do-More Travel Agency Inc 978-3100
229-13 George's Meat Mkt LA 8-8242
229-14 Cardinal Teen Toy 528-1500
229-15 The Blackboard 341-0696
229-15 The Comrep Organization Inc
341-0696
229-16 Harry's Fish Mkt LA 8-3949
229-20 Everything Store 525-9236
229-23 Rael Pharmacy LA 8-6180

230TH 230—01

230-01 Stanley's Juvenile Furn & Toy
Shop LA 8-4412
230-03 Pearson's Realty 276-6600
230-05 Ednette's Boutique 341-0101
230-06 Cows 525-0800
230-11 Prospect Decorators 341-1681
230-12 Craft Master Designs Ltd 723-9700
230-13 Four Star Bake Shop Inc LA 5-9465
230-14 Burstein R Est 527-1660
230-14 Universal Development &
Realization Corp 527-1660
230-14 Williams Chester ins 527-8950
230-15 Leroy T V Repairs 978-5636
230-15 Leroy's Television Repair Center
978-5636
230-16 Billy Tyrell Dance Studio 276-2493
230-21 Illusion Shoes FI 1-4510
230-22 Ridgewood Savings Bank
Laurelton Ofc 821-4500
230-23 A D Orlando Bakery LA 7-3313
230-23 Orlando Andrea bkry LA 7-3313
230-23 Orlando Bakery LA 7-3313
230-27 Busy Bee Luncheet 525-9671

FRANCIS LEWIS BLVD—
231ST 231—01

231-01 Mainsley Leslie b LA 8-4555
231-01 Martin Paint & Home Decorating
Centers—
Branches—
Call LA 5-9269
231-01 Nebab N MD LA 8-8171
231-04 Laurelton Small Animal Clinic
341-2555
231-06 Judy's International
restrnt 525-2800
231-06 Judy's International Inc 525-9608
231-07 Dial Drugs LA 7-0980
231-08 A C D C Contractors 528-8909
231-08 Goodies Boutique Inc 341-4066
231-09 J & J Furniture Svce 276-6900
231-09 Peppino's Strw Hat 525-9566
231-10 Wong's Chow Mein Store LA 8-8180
231-11 Casual Department Store
Call LA 5-8330
Call LA 5-8330
231-11 Casual Dept Store LA 5-8330
231-12 Clarence K Allen Agency 723-7219
231-12 Clarence K Allen Real Estate
723-7260
231-14 Clover Delicatesn LA 8-9420
231-14 Stegmann Helmut dictsn LA 8-9420
231-16 Young's Florist Inc 978-6819
231-18 Weber Sidney S b 528-8909
231-19 Nathan Pollack Ofc & Industrial
Equipt 527-2960
231-20 Stewart Wine & Liquor Corp
LA 8-4800
231-22 Hogarty's Tavern 525-9311
231-26 Avco Financial Services Of New
York Inc
Queens Offices—
Call 276-1400
231-28 United Barber & Beauty Supls
978-8959

LAURELTON

ZIP CODE 11413
HSE # 135-00 TO 232-99

232-02 DouglaSons Affiliates Agency Inc
527-6666
232-04 Hairstyling By Faye 723-8200
232-05 Zlotnick's Luggage Shop 526-2245
232-05 Zlotnick's Shoe Repr 528-2245
232-06A Dillane Corp LA 5-0225
232-07 Boulevard Gift Shop 527-3848
232-07 Harmon Sallie E b 527-3848
232-07 Ray's Letter Svce 527-3848
232-08 D C C Custom Built Furniture &
Interior Decrtng 341-3667
232-09 Weiss B Harvey
optmtrist ofc LA 8-1913
232-09 Weiss Harvey Optmtrist ofc LA 8-1913
232-09 Weiss W Moses Dr LA 8-1913
232-11 Clause-McMillan rlty 978-1948
232-14 Dankner's Pharmacy
prescrptn dept 528-7821
232-14 Dankner's Pharmacy
prescrptn dept LA 8-7781
232-14 Williams Al 528-0081
232-16 Wong Tong F LA 7-2721
232-17 Purr-Fect Cleaners Of Laurelton
525-9620
232-18 Dubs L LA 8-5774
232-18 Hughes James P 341-0048
232-18 Stillas Petros 527-4549
232-20 Laurelton Bicycle & Carriage
Shop LA 8-6886

ZIP CODE 11422
HSE # 233-00 TO 245-99

233RD 233—01

233-01 Parkway Diner 525-7021
233-01 Parkway Diner 529-9310
233-02 Garry Owen Inn The 525-9590
233-06 Cross Isl Realty Co LA 8-8071
233-06 Frazier Leon F LA 7-7740
233-06 Frazier Leon F ins LA 8-8071
233-06 G W G Trucking Inc 341-0950
233-06 Majestic Transport Svces Inc
723-2181
233-06 N Y Patient Aids Inc 978-3310
233-06A G & O Stationery 528-6820
233-08 Merrick Plastics Enterprises 723-7740
233-10 Levine Murray Woodworking Co
276-2730
233-12 Laurelton Grocery Distribtrs LA 5-0560
233-12 Sarni Louis b LA 5-0560
233-14 Laurelton Realty LA 8-3220
233-14 Mullen Lorraine LA 7-3140
233-16 Arlo Constr Co 978-8500
233-16 Behrendt-Travel Svce Inc
516 775-2888
233-16 Behrendt Wm J Inc
rl est & ins 516 775-2888
233-16 Borg Charles J Agency 528-1300
233-16 Donat Distribtrs 525-2120
233-16 Workman's Benefit Fund 528-1300
233-22 White Litho Inc 978-1080

234TH 234—01

234-02 Chestnut & Chestnut Inc 525-9610
234-04 Twin Pond Bakery 528-8610
234-07 Factory Cover Co 527-3670
234-07 General Mint 527-3670
234-07 General Pool Factory Inc 527-3670
234-08 L & A Cleaners Inc 276-9470
234-12 Brachs-Bric-A-Brac Antiques
LA 7-2310
234-16 Rocco's Barber Shop 525-9580
234-18 Rilr Fashion By Anita 525-2090
234-20 Maja Cleaners & Dyers 978-9340
234-22 A-Vee Svce Sta Inc No 2 525-9510
234-22 A-Vee Svce Sta #2 341-1040
234-35 House Of Carpets 527-9000

ROSEDALE

BROOKVILLE BLVD 240—01

240-01 Caristo Constr Corp 341-0490
240-04 Valerio Beer & Soda Distribtr Inc
LA 8-1130
240-04 Valerio's Twenty-Four Hour Ice
Svce Inc LA 8-1130
240-10 Dairy Joy 525-9280
240-10 Dairy Joy 525-9280

241ST 241—00

241-02 Garden Mkt Inc 527-2360

242ND 242—01

242-02 A-Z Svce Sta LA 5-9650

243RD 243—01

243-04 Rose's Superette Inc LA 8-9520
243-06 Emrald Bar 525-9130
243-07 Cross Island Inn Diner Restrnt
276-5820
243-08 Stevens Hair Stylists LA 8-7500
243-10 Liggett-Rexall Drug Store LA 8-5000
243-10 Parkway Pharmcy LA 8-5000
243-10 Parkway Surgical Supls LA 8-5000
243-10 Rexall Drug Store LA 8-5000
243-12 Nevele Constr Co Inc 978-2300
243-16 Brown Martin DDS 525-1810
243-22 Custom Auto Glass Co 525-4840
243-29 Adams Rents 341-1230
243-47 Hyman's Plumbing & Heating
LA 8-0660

MERRICK BLVD (AV) (RD)
SPRINGFIELD

118th AV 11801
2 Frontiers Svce Sta ---------- AR 6-9856
3 Carmen Cleaners Inc ---------- LAur 8-2428
3 Morris Medford W ---------- AR 6-0546
3 Robinson Betty Mrs ---------- Fle 1-4542
3 Gilfs Stanley ---------- LAur 5-9292
3 Henderson Walter D ---------- Fle 1-3125
3 Simons Leroy ---------- AR 6-5273
3 Benson Custom Lamps ---------- LA 5-9313
3 Pick Quick Mrck Corp ---------- LA 5-9636

119th AV 11901
2 Thorne's Lunchnet ---------- LA 5-9508
2A Beauty Box ---------- LA 5-9765
3 Dodds Geo ---------- mt mkt LA 8-1919
3A Seaglin Liquor Shop Inc ---------- LA 8-2043
3 Nu-Way Cleaners&Dyers ---------- LAur 8-6841
3 Cesco X-Ray Co ---------- AR 6-3440
3 Cohen B ---------- surgcl supls AR 6-3000
3 Lissco Scientific Co ---------- AR 6-3000
3 US Hosp Supl Corp ---------- AR 6-3000

PARK PL 11931
1 Scott Andrew J ---------- LAur 7-0196
5 Frank's Auto Body ---------- LA 5-9444
3 Allen Florence B --rl est&ins LAur 7-2800
3 Allied Rl Est Bd Inc ---------- LAur 7-2800
3 Durrah Jas W ---------- tax consltnt AR 6-7484
3 Holmes-Allen Travl Agncy Inc LAur 7-2800
3 Holmes J J Franklin b ---------- LAur 7-2800
4 Irby Irene ---------- 723-2757
6 Reilly Anna Lee ---------- LA 7-0391
6 Shaw Leona ---------- AR 6-3361
6 Toomer Earl H ---------- LA 7-7656
2 Eibeler Jos ---------- LAur 8-2062
0 Locust Tlfe Genl Contractg Co LAur 8-9323
0 Schattenberg Else C Mrs --- LAur 5-7900
0 Schattenberg Henry --- contr LAur 8-9323
2 Simon L Mrs ---------- DB LAur 5-3902
2 Syferd Roger L ---------- 723-3050

120th AV 12001
2 Booth Ed Const Co Inc ---------- HO 5-4179
2 Booth Ed Const Co Inc ---------- HO 5-4179
2 Booth Ed Const Co Inc ---------- LA 7-7070
2 Booth Ed Home Improvements Inc ---------- LA 7-7070
8 Thornton Marvin ---------- LA 5-9746

BAISLEY BLVD 12201
1 James Auto Svce Sta ---------- AR 6-9877
1 James Auto Svce Sta ---------- 723-2486
4 Sam's Svce Sta ---------- LA 5-9296
0 Rogers Drug Co ---------- LA 8-1000
0 Rogers Drug Co Order Dept ---------- AR 6-4000

SUNBURY RD 12301
9 Carrie L C ---------- brbr shp LA 5-8868
9 Colavita Pasquale ---------- LA 8-4898
2 L M&Sons ---------- prod AR 6-6434
2 Quilliam Park L ---------- AR 6-6952
0 Jamaica Carburetor&Generator Co ---------- LAur 7-0379
0 Jamaica Carburetor&Generator Co ---------- LA 8-9503
0 Quilliam Roland ---------- LAur 7-0379
0 Skip's Auto Body Inc ---------- AR 6-9764
0 Skip's Auto Body Inc ---------- LA 5-9331

125th AV 12501
1 JC Svce ---------- 525-9041
2 Frank's Carburetors ---------- 525-9428
9 Mademoiselle Beauty Salon ---------- LAur 5-9536
3 Roxanne Modes Inc ---------- LA 8-7596
6 Tuffs Const Corp ---------- LA 5-1735
7 Embassy Furn Svce ---------- LA 8-9239
7 Modern Furn Refinishers ---------- LAur 8-9239
7 Zeiger Louis ---------- LAur 8-9239
7A Yovanne Irving ---------- stairs LAur 5-9754
8 Interboro Floor Covering Co ---------- D6 LAur 8-8456
1 Berman's Food Cntr ---------- LA 8-9319
2 Helen of Troy Tavern ---------- LA 5-9562

126th AV 12601
1 Drew Wines&Liquor ---------- 528-7683
3 Maretta Restrnt ---------- LAur 5-9557
5 Stephens Barbr Shop ---------- LAur 5-9840
7 Garden Mkt ---------- frts vegs A1 LAur 8-2111
9 R&L Quality Foods ---------- AR 6-4848
1 George's Lunchnet ---------- LA 5-9857
4 Jay-Vee Svce Sta ---------- AR 6-1934
4 Johnson Robt ---------- collision FI 1-1087
5 Gamble Dani ---------- mts&pntry LAur 7-7116
5½ Edward's Cleanrs ---------- LAur 5-9400
7 Springfield Beauty Salon ---------- AR 6-6769
9 Schneider O O Pharmcy ---------- 528-2151

127th AV 12701
5 Automatic Heating Co ---------- LA 8-7598
5 Mac-Mah Automatic Heating Corp LA 8-7598
5 Mahlau Chas F ---------- plmbr LA 8-7598
5 McCarthy Jos A ---------- plmbr LA 8-7598
7 Dennis Luncheet ---------- LA 5-9455
8 Adelhardt Const Corp ---------- LA 7-8700
8 Friedberg Jacob ---------- bldr LA 7-8700
8 Luna Metal Craft Co Inc ---------- LA 7-8700
9 Matte Beauti Rama ---------- LA 5-9058
1 Bob's Fish&Chips ---------- AR 6-9737
3 Ward Cecil C ---------- MD AR 6-3122
5 Diamond Private Cab Co ---------- LA 5-9500
7 Red Seal Laundry Svce ---------- LAur 8-2001
9 Ward's Tavern ---------- LA 5-9486
1 Earl Degenhardt Inc ---------- LA 7-0468
3 Max's Dairy&Delicatsn ---------- LAur 8-0724

ANDERSON RD 12801

MERRICK BLVD (AV) (RD)
SPRINGFIELD

128-01 Causeway Svce Sta ---------- LAur 8-0287
128-01 Causeway Svce Sta ---------- LA 8-0287
128-01 H&P Automtic Transmissions --- LA 8-0287
128-01 H&P Automtic Transmissions --- LAur 8-4769
128-10 Dee Motors Auto Painting& Body Shop ---------- LA 5-0050
128-10 Dee Motors Inc ---------- FI 1-1010
128-10 Dee Motors Inc ---------- LA 5-1200
128-13 Springfield Di ---------- FI 1-2092
128-13 Springfield ---------- LAur 5-9478

129th
129-04 ---------- 525-9686
129-15 Spalding&Stamps
Co Inc ---------- AR 6-2099
129-21 Gresham Chemcl Corp ---------- LAur 7-2277
129-21 Merrick Labs Inc ---------- LAur 7-2277
129-24 Tack's Lunchnet ---------- 525-9894
129-26 Ben's Liquors ---------- LAur 8-1260
129-26 Taylor Ernest M ---------- AR 6-3322
129-32 G&S Motors Inc ---------- LAur 7-0483
129-32 Stock Herman ---- used cars LAur 7-0483

130th AV 13001
130-07 Diamond Automty Retail Inc --- LA 8-6900
130-07 Diamond Motor Sales&Svce Co --- Main office&show room ---- LAur 8-6900 Parts&svce ---------- LAur 8-6900
130-07 Diamond-Rambler Inc ---------- LA 8-6900
130-07 Rambler-Diamond ---------- LAur 8-6900
130-29 Idlewild Motors Inc ---------- LAur 7-3700
130-29 Idlewild Motors Inc svce dept Fle 1-1848
130-35 Best Housecraft Co ---------- LA 7-5777
130-35 Duncan&Colton ---------- jwlry FI 1-4479
130-35 Mandell Irving b ---------- LAur 5-6630
130-35 Middle Ist Meats ---------- FI 1-0347
130-35 Times Square Store Corp ---------- FI 1-4000
130-35 Times Square Stores candy dept LA 8-8177
130-35 Weidenholz Chas ---------- bkry FI 1-2661
130-39 L&M Svce Sta ---------- FI 1-1353
Public Tel ---------- LA 5-9536
130-39 U-Haul Trailrs ---------- Fle 1-1353
130-50 Carrols Hamburger Drive-In --- LA 5-9277

FARMERS BLVD 13101
131-02 B&S Auto Svce ---------- LAur 5-9339
131-07 Accurate Svce Stas Inc ---------- LAur 5-9334
131-21 Corkhill Wm J Co ---------- LA 8-7413
131-31 Springfield Lumber Inc ---------- LAur 7-6400
131-31 Wolsky Harry Inc stair bldrs LAur 7-6400
131-31A Swan Laundry ---------- JB LAur 5-8791
131-31B Premet Co ---------- AR 6-5323
131-32 Williams Willie ---------- 276-6425
131-34 Skylark Bar&Grill ---------- LAur 5-9614
131-35 Villa Rosa ---------- LA 5-9417

BELKNAP 13301
132-20 Esquire Shoe Polish ---------- AR 6-3400
132-20 Evangeline Dyes Inc ---------- AR 6-3400
132-20 Instant Shoe Coloring ---------- AR 6-3400
132-20 Kinomark Inc ---------- AR 6-3400

130th 13301
L I R R 13401
134-31 AA Active Salvage Co ---------- 723-0806
134-31 Aronson Harry H ---------- 723-0008
134-31 Merrick Auto Parts&Machy Corp ---------- Fle 1-0800
134-31 Robb's Auto Wrecking ---------- LA 5-6300
169-X Iser Wm Inc ---------- bldrs RE 9-9843
171-X Angelone Jos ---------- contr OL 8-9142

MONTAUK 13501
185-06 Woodcraft Co ---------- LAur 8-2836
185-11 Uneeda Car Broker Corp ---------- 723-2836
185-21 Paris Auto Body ---------- LAur 7-2316
185-22 Charles Wissel Cesspool Co Inc FL 9-0002
185-22 Munz Gus Co ---------- scavngrs LA 8-0466
185-22 Wissel Frank&Co Inc ---------- scavngrs LAur 8-0466
185-22 Wissel's A Son ---------- scavngr LAur 8-0466
185-25 Associated Auto Radiatr Shop ---------- AR 6-3666
185-25 Associated Auto Radiatr Shop ---------- JA 6-2666
185-25 Kinnell's Auto Radiatr Shop ---------- JA 6-2666
185-31 Wissel Wm ---------- LAur 5-5876

PINEVILLE AV 13601
186-09 Denny Ogla Mrs ---------- LAur 5-0181
186-11 Goldstein Morris ---------- hwyr LAur 7-2500
186-11 Town Realty Co ---------- LAur 7-2500
186-15 Pine Leon ---------- indry LAur 8-3340
186-15 Grand Cleanrs&Linderers ---------- LA 8-3340
186-15 Grand Laundry&Cleaners ---------- LA 8-3340
186-29 Merrick Auto Glass&Locks ---------- LA 5-4720
186-29 Merrick Svce Cntr ---------- LA 5-4720
186-29 Merrick Svce Sta ---------- LA 5-9687
186-45 Glenn Motors Inc ---------- LA 5-7500
186-45 Glenn Motors Inc ---------- LA 5-9402

RIDGEDALE AV 13801
188-03 Portia Kom Communictns ---------- 276-0606
188-03 Springfield Collision Inc ---------- 525-9493
188-03 Springfield Collision Inc ---------- 723-1107
188-03 Stop-Blaze Prod Inc ---------- 276-0606

SPRINGFIELD BLVD 21601
216-02 Meadow Brook Natl Bank The sprfld gdns LA 8-2600
216-08 Knight Kar Bar&Grill ---------- LA 5-9659
216-11 Detrano Jos R ---------- MD LA 8-2100
216-11 Drave Maurice F ---------- DMD ofc LAur 8-2080

217th 21701
217-01 Perry John E ---------- atty LAur 8-3357
217-11 Bklyn Thermometer Co Inc ---------- FI 1-2040
217-11 Teichert Engrng Co ---------- FI 1-2040
217-12 Amberman Benj D ---------- FI 1-4766

MERRICK BLVD (AV) (RD)
SPRINGFIELD

AREA CODE 212

217-15 Art Signs ---------- LAur 8-4340

218th 21801
218-01 Chevrolet Reid Inc ---------- LA 8-8000
218-01 Reid Chevrolet Inc --- sales svce LA 8-8000
218-04 Franklin C G Inc --- brdwr A1 LAur 8-1579
218-04 Franklin's Hrdwr Store --- A1 LAur 8-1579
218-08 F&G Auto Sales Co ---- used cars LA 8-7810
218-20 Nick's Coin Shop ---------- LA 7-1602
218-20 Scarpelli M C ---------- toys LAur 7-1602
218-22 John's Meat Mkt ---------- LAur 8-2987
218-22 Mode Craft Remodeling ---------- LA 8-4365
218-24 Service City Inc ---------- LA 7-6800
218-30 John's Tavern ---------- LAur 5-9771

219th 21901
219-02 Longo John --- lndscp gardnr LAur 5-8180
219-02 Longo's Nursery ---------- LAur 5-8180
219-03 Cederberg Walter --- chair rentl LA 5-5550
219-03 Cederberg Walter --- chair rentl LA 5-5550
219-03 Triangle Chair Svce ---------- LA 5-5550
219-05 Tibaldi Silvio E ---------- LAur 8-3684
219-07 Davis A ---------- LAur 8-7534
219-07 Nemo's Pharmacy ---------- LAur 8-3140
219-13 Laurel Tobacco&Candy Co --- FI 1-1149
219-14 Nickerson Wm J christms trees LAur 5-5000
219-14 Nickerson's Nursery ---------- LAur 5-5000
219-15 Bob's Delicatesn ---------- LA 8-8612
219-15 Seekamp Richd ---- delcatesn LAur 8-8612
219-17 Cardinal Teen Toy ---------- LA 8-1448
219-19 Wash Rite Laundromat ---------- LA 5-3232
219-20 Taylor Chas ---------- LA 8-6526
219-20 Wittlers Chas Jr ---------- AR 6-2030
219-21 Oshman Jack ---------- stationry LA 5-9306
219-21 Sprague Leonard T ---------- 723-1810
219-23 Foley T ---------- LA 8-6897
219-23 Lee Yook Fook ---------- LA 7-2320
219-25 Laurel Super Svce Sta ---------- LAur 5-9565
219-26 Springfield Mason&Bldg Materials ---------- LA 8-6616

220th 22001
220-01 Gez Ben ---- glass dlrs-D9 LAur 5-0630
220-01 Laurelton Glass Wks ---------- LA 5-0630
220-05 Glen Field Farms ---------- AR 6-7800
220-05 McDonough Kathleen ---------- LA 7-2451
220-07 Menendez Frank ---------- AR 6-0341
220-07 Ouraklan Peter ---------- grocry LAur 5-1323
220-09 Empire Auto Supl Co Inc ---------- LAur 8-6606
220-09 Negron Juan ---------- 276-4357
220-09 Rios Emma ---------- Fle 1-4529
220-11 Bern Bob ---------- mtlnry LA 8-3185
220-11 Kleess Frank ---------- LAur 5-2625
220-11 Mard Frank J ---------- LAur 8-2350
220-13 Gubitosa Rocco P ---------- LA 7-4479
220-13 Joe's Prime Meat Mkt ---------- LAur 8-1852
220-17 Emil's Service Station ---------- LAur 5-0770
220-20 Shanley Jas Inc ---------- contr LA 7-1986
220-22 Vitro Sportswr ---------- LAur 7-7757
220-24 Oranges John b ---------- LA 8-9021
220-24 Scott Cleanrs&Dyers ---------- LAur 8-9021
220-24 Scott Rug&Carpet Cleanr ---------- LA 8-9021
220-26 Maccani's Delicatesn ---------- FI 1-1230
220-28 B&J Candy&Pretzel ---------- Fle 1-4536
220-30 Luerssen Louis Mrs ---------- LA 8-7788
220-30 Luerssen&Son wines liqrs A1 LAur 8-1235

221st 22101
221-18 Davis Tire Svce Inc ---------- shp LA 8-2088
221-22 Bears Head Tavern ---------- AR 6-9798

222nd 22201
222-01 Murray Walter P Funeral Home ---------- LAur 8-7322
222-01 Tator-Murray Funeral Home ---------- LAur 8-7322
222-01 Walter Murray P Funeral Home ---------- LAur 8-7322
222-04 Davis Tire Svce Inc ---------- shp LA 8-0021
222-15 Isaac Thos ---------- svce sta 525-9492
222-15 Jackpot Svce Sta Inc ---------- 525-9492
222-16 Academy of Lynbrk ---------- LY 5-1330
222-16 Academy of Springfield Gardens ---------- LA 5-1330
222-16 Arithmetic&Reading Schl ---------- LA 5-1330
222-16 Christopher Robin Academy of Springfield Gardens ---------- LA 5-1330
222-16 Christopher Robin College Prep Tutoring Schl ---------- LA 5-1330
222-16 Christopher Robin Elem&High Schl ---------- LA 5-1330
222-16 Christopher Robin Tutoring Schl ---------- LA 5-1330
222-16 Donus Geo B ---------- LA 5-1330
222-16 Mathematics Tutoring Cntr ---------- LA 5-1330
222-16 Reading&Arithmetic Improvement Cntr ---------- LA 5-1330
222-16 Springfield Gardens College Preparatory Tutoring Schl ---------- LA 5-1330
225-18 Schultz C ---------- 723-3820

223rd 22301
223-01 Laurel Motors Inc --- used cars LAur 7-2003
223-04 U S Govt. Post Office Dept— Branch Post Offices— Sprfld Gdns ---------- D9 LAur 8-4192
223-04 Tanbro Svce Sta Inc ---------- LAur 7-8675
223-10 John&Bob's Svce Sta ---------- LA 5-9213

224th 22401
224-01 Chrysler-Lilln ---------- LAur 8-2407

MERRICK BLVD (AV) (RD)
SPRINGFIELD

224-01 Laurel Motors Inc ---------- LAur 8-2407
224-01 Zeiger Car Rental Inc ---------- LA 8-2407
224-02 Drive Line Motors Inc ---------- AR 6-7548
224-02 Drive Line Motors Inc ---------- LA 5-9890
224-10 Sparer Murray H atty ---------- If No Ans ---------- 516 RD 6-1700
224-10 Stephen Brokerage Co ---------- LAur 5-4979
224-11 Monteleone Francisco D ---------- LA 8-1790
224-13 Laurelton Hrdwr&Paint Co --- LAur 8-7418
224-13 Tramontano Francine ---------- 527-7563
224-14 Laurelton Bagel Bakery Inc --- LA 5-9570
224-15 Petrowski Paul ---------- 723-2986
224-16 Vic's Hobby Shop ---------- FI 1-0784
224-17 Fernandez Mario ---------- AR 6-2759
224-19 Leeds Mark K ---------- atty LAur 5-1641
224-19 Leeds of Laurelton rl est&apprsls LA 5-3424
224-19 Murdock Edw ---------- LAur 5-0311
224-20 Howard Photo Studio ---------- LA 8-1944
224-21 Silver Murray ---------- AR 6-1740
224-22 Wong's Garden Inc ---------- LAur 5-9766

LAURELTON

225th 22501
225-03 Kwikway Quality Mfrs Inc ---------- LA 5-9751
225-06 Daisy Fresh Drive-In Cleanrs LAur 5-9491
225-10 Ballo R H ---------- elec contr LAur 8-3613
225-12 Peter Pan Beauty Salon ---------- LAur 5-9570
225-14 Byrne&Sons ---------- plmbg LA 5-6600
225-14 Byrne&Sons ---------- plmbg LAur 8-5076
225-14 Halvorsen Hans ---------- LAur 7-4452
225-14 Reid's Sewer Svce ---------- LA 8-5076
225-16 Ballo Wm G ---------- LAur 8-7231
225-16 Berner Bernard ---------- ins LAur 7-5000
225-16 Klirz Max ---------- ins LAur 7-5000
225-16 Kurz Max Inc ---------- las LAur 7-5000
225-16 Schneider E ---------- LA 8-6328
225-16 Schneider Eugene ---------- LAur 8-6328
225-18 Merrick Telvsn&Marine Radio ---------- LAur 8-1022
225-19 Hoffman&De Santis uphlstrs LAur 7-8144
225-19 Regent Decorators ---------- LAur 7-8144
225-20 Adams Eliz Mrs ---------- LAur 8-4941
225-22 Bob's Discount Auto Accsries ---------- AR 6-9715
225-22 Drakoulias Dean ---------- LA 8-3377
225-23 Elton Plumbing Supl Corp ---------- LA 8-1060
225-25 Tesch Robt C ---------- dntst LAur 5-0122

226th 22601
226-01 Charlie's Tavern ---------- AO LAur 5-9819
226-02 Twelfth Ad Democratic Club ---------- FI 1-2709
226-03 Joe's Place Luncheet ---------- AR 6-9717
226-04A Krupnikoff&Sons ---------- plmbrs LAur 8-9709
226-05 Lottie's Lndrtt ---------- LA 5-5151
226-05A Dolewich Abe S ---------- LAur 8-4248
226-07 Samuels Tailor Shop ---------- LAur 8-6588
226-08A Castle Sales Co ---------- LA 7-7772
226-08A Tupperware Castle Sales Co ---------- LA 7-7772
226-09 Riviera Restrnt ---------- LAur 5-9571
226-10 Carbo Air Conditioning ---------- LA 8-2210
226-10 Carbo Coal&Coke Co Inc ---------- LA 8-2210
226-10 Carbo Fuel Oil Co ---------- LA 8-2210
226-11 Lome Max M ---------- atty LAur 8-6800
226-11 Schwartz Sylvia ---------- invt LA 8-6800
226-13 Rosen Kosher Deli ---------- LA 5-9815
226-13 Rosen's Kosher Delicatesns ---------- 528-8814
226-18 Comboast Svces Co Inc ---------- AR 6-3100
226-18 Gotteyman Jon S ---------- ins AR 6-5500
226-18 Epic Agncy Ltd ---------- AR 6-5500
226-18 Exact Ins Agncy ---------- AR 6-5500
226-18 Food Fair Stores Dist Ofc ---------- AR 6-3300 Matnce Dept ---------- AR 6-3333
226-18 Intercont Life Ins Co of Buffalo ---------- AR 6-5500
226-18 Klein Sidney N ---------- ins AR 6-5500
226-18 Laurelton Chamb of Commerce AR 6-5500
226-18 Laurelton Community Volunteer Ambulance Corp ---------- 525-9000
226-18 Policy Typing Svce ---------- AR 6-5678
226-18 Wild&Co Agncy ---------- AR 6-5678
226-19 Wonder Klean ---------- LA 5-9378

227th 22701
227-01 Laurel Shops ---------- dry gds J7 LAur 5-9401
227-02 Carmine's Pizzeria ---------- AR 6-6824
227-03 Tung Enterprises Inc ---------- FI 1-1020
227-07 Good Home Stores ---------- LA 5-5155
227-07 Preferred Packing Svce Inc ---------- FI 1-2922
227-08 Brennan&Daubner ---------- attys LA 7-4300
227-08 Brennan Wm F ---------- atty LA 7-4300
227-08 Daubner Thos P ---------- atty LA 7-4300
227-08 Johnstone Lawrence M ---------- ins brks LA 7-8800
227-08 Mentone Realty Co ---------- LA 7-8800
227-08 O'Neill Jas T ---------- ins brks LA 7-8800
227-08 O'Neill-Johnstone Assocs ---------- ins LA 7-8800
227-10 Laurelton Theatr ---------- LAur 7-7700
227-12 House of Madison ---------- FI 1-4433
227-12 Wedgewood Studios ---------- LAur 7-1300
227-14 Jackson Ue ula ---------- 723-1239
227-15 South Shore Jobbing Co ---------- LA 8-7606
227-15 Zitterman's Uniform Co ---------- LA 8-7500
227-18 Mr Murray's Beauty Salon ---------- LAur 7-3213
227-18 Murray's Beauty Salon ---------- LAur 7-3213
227-23 Marder's Pharmacy ---------- LAur 5-9586
227-23 Marder's Pharmacy ---------- LAur 8-8585

228th 22801
228-01 Denmark Harold ---------- DDS ofc LAur 8-7227
228-01 Fuentes Geo ---------- [illegible] LA 5-7126
228-03 Bella Mia Restrnt ---------- LA 5-9536
228-03 Romeo's Barber Shop ---------- LA 5-8604
228-05 Bklyn Upholstry Co ---------- AR 6-4196
228-07 Ace Window&Door Co Inc ---------- LAur 8-0570
228-07 Bochner Jos ---------- Fle 1-1655

1955

MERRICK BLVD (AV) (RD)
SPRINGFIELD

BELKNAP 15800

132-05 United Parcel Service-Air—
Receiving Stas ..... LExn 2-2627
132-19 Visser's Nurseries ..... LAur 8-1114
132-26 Kretzer Const Co ..... LAur 7-9888
132-20 Kretzer Const Corp ..... LAur 5-9870

133-32 Fishman Benj N ..... LAur 8-4200
133-32 Sullivan J T Lumbr Co Inc .. LAur 8-4200
133-32 Sullivan Lmbr Co ..... LAur 8-4200

L I R R 15801

134-31 Merit Auto Body Shop
reprng&svce LAur 8-9010
134-31 Merrick Auto Glass&Locks .. LAur 5-4720
134-31 Merrick Auto Parts&Machy Corp
LAur 5-9284
134-31 Roth's Auto Wrecking ..... LAur 5-6300

MORTIMER 15801

165-06 Woodcraft Co ..... LAur 8-2836
165-07 Paul's Food Shop ..... LAur 5-9630
165-21 Parts Auto Body Svce Sta D9 LAur 7-2516
165-22 Munz Gus Co ..... scavngrs LAur 8-0466
165-22 Munz Gus Co ..... scavngrs Flsh 9-0002
165-22 Wissel Chas Cesspool Co Inc .. LAur 8-8850
165-22 Wissel Chas Humus Co ..... LAur 8-8850
165-22 Wissel Frank&Co Inc scavngrs LAur 8-0466
165-22 Wissel Frank&Co Inc ..... Flsh 9-0002
165-22 Wissel Frank&Co Inc scavngrs LAur 8-8850
165-22 Wissel's A Son ..... scavngr LAur 8-0466
165-25 E-Z Roll Hrdwr Mfg Co ..... LAur 8-7602
165-25 Merrick Hrdwr Co ..... LAur 8-7602
165-25 Metal Moldings Inc ..... LAur 8-7602
165-27 Kluge Ottilie J ..... LAur 7-3674
165-27 Uhl Ruth E ..... LAur 5-7395
165-31 Wissel Wm ..... LAur 5-5876

PINEVILLE AV 15809

186-09 Denny Ogla Mrs ..... LAur 5-0181
186-11 Goldstein Morris ..... lwyr LAur 7-2500
186-11 Town Realty Co ..... LAur 7-2500
186-15 Fine Leon ..... Indry LAur 8-3340
186-15 Grand Laundry Svce ..... LAur 8-3340
186-45 Springfield Collision ..... LAur 7-8075
186-45 Titus Motors Inc ..... LAur 5-7500

RIDGEDALE AV 15801

188-04 Marchetti Const Corp ..... LAur 8-0553

SPRINGFIELD BLVD 11801

216-01 Charby Svce Inc ..... LAur 5-9626
216-02 Springfield Gardens Natl Bank LAur 8-2600
216-08 Knight Kap ..... restrnt LAur 5-9659
216-11 Draye Maurice F ... DMD ofc LAur 8-2080
216-11 Sippel R L ..... MD ofc LAur 8-2100

11th 11801

217-03 Tru-Art Aluminum Grille Co Inc
LAur 7-8200
217-09 Bklyn Thermometer Co ..... LAur 8-5164
217-09 Teichert Engnrng Co ..... LAur 8-5164
217-11 Inter-County Craftsmen Inc .. LAur 7-7015
217-12 Amber Novelties Co ..... LAur 5-9370
217-12 Amberman Benj D ..... LAur 5-9370
217-12 D'Malley Matthew V ..... LAur 5-8826
217-14 Baisley Auto Body ..... LAur 7-1212
217-15 Art Signs ..... LAur 8-4340
217-19 Marose Jos ..... svce sta LAur 5-9482

11th 11801

218-01 Chevrolet Frank Reid Inc .. A1 LAur 8-8000
218-01 Reid Frank Chevrolet Inc
sales svce A1 LAur 8-8000
218-04 Franklin C G Inc hrdwr A1 LAur 8-1579
218-04 Franklin's Hrdwr Store A1 LAur 8-1579
218-08 F&G Auto Sales Inc used cars LAur 5-4928
218-20 Nick's Toy Shop ..... LAur 7-1602
218-20 Scarpelli N C ..... toys LAur 7-1602
218-22 Branford Mamie Mrs ... LAur 7-2318
218-22 Herman's Meat Markets Inc
DB LAur 8-2987
218-22 Reilly A J ..... LAur 7-3263
218-24 Elfler John A Inc
undrtkr embalmr J5 LAur 8-0162
218-24 Joseph Lewis ... undrtkr J5 LAur 8-0162
218-28 Stahlberg Edwin ..... statnry LAur 5-9374
218-30 Al's Tavern ..... LAur 5-9771

11th 11801

219-02 Longo John ... lndscp gardnr LAur 5-8180
219-03 Lehmann Chas F b ..... LAur 8-4858
219-05 Tibaldi Silvio E ..... LAur 8-3684
219-07 Davis A ..... LAur 8-7534
219-07 Nemo's Pharmacy ..... LAur 8-3140
219-13 Sheridan Jos R ..... LAur 5-4327
219-14 Nickerson Mildred ..... LAur 7-3952
219-14 Nickerson Wm J christms trees LAur 5-5000
219-14 Nickerson's Nursery ..... LAur 5-5000
219-15 Bob's Delicatsn ..... LAur 8-8612
219-15 Seekamp Richd ..... delicatesn LAur 8-8612
219-20 Springfield Willow&Reed Co LAur 8-4411
219-21 Ushman Jack ..... statnry LAur 5-9705
219-23 Gock Leslie ..... LAur 7-2320
219-25 Laurel Super Svce Sta ..... LAur 5-9565

220th 15801

220-01 Goz Ben ... glass dlrs D9 LAur 8-0630
220-01 Laurelton Glass Wks ..... D9 LAur 5-0630
220-02 Jack's Svce Sta ..... J5 LAur 5-9813
220-05 Teofilo Sam ..... LAur 5-0380

MERRICK BLVD (AV) (RD)
SPRINGFIELD

220-07 Malick Geo S ..... Flsl 1-5063
220-07 Osorio Louis M ..... LAur 8-5366
220-07 Ouakian Peter ..... grocry LAur 5-1323
220-08 Frankle Herbert ..... LAur 7-0223
220-09 Kleess Peter H ..... Flsl 1-4855
220-11 Decorator's Supls&Cornice Co LAur 7-5050
220-11 Jamaica Cornice Co ..... Vlrg 9-7508
220-11 Kress Frank ..... LAur 5-2625
220-11 Mari Frank J ..... LAur 8-2350
220-13 Gubitosa Rocco P ..... LAur 7-4479
220-13 Heuser Geo A ..... LAur 8-5862
220-13 Joe's Prime Meat Mkt ..... LAur 8-1852
220-17 Emil's Service Station ..... LAur 5-0770
220-20 Boulevard Combination Mkt .. LAur 8-1597
220-22 Laurelton Apparel Mfg Co Inc LAur 7-1133
220-24 Kaladjian Geo ..... LAur 8-9021
220-24 Penn Geo ..... LAur 8-9231
220-24 Scott Cleaners&Dyers ..... LAur 8-9021
220-24 Scott Rug&Carpet Cleaning
J8 LAur 8-9021
220-26 Henry's Mkt
grocry & delcatesn LAur 5-9775
220-30 Luerssen&Son wines liqrs A1 LAur 8-1235

221st 11801

221-07 Webb Realty Corp ..... LAur 5-9471
221-18 Davis Tire Svce Inc ..... LAur 8-0021
221-22 Boar's Head Tavern ..... LAur 5-9458

222nd 11801

222-01 Murray Walter P Funeral Home
LAur 8-7322
222-02 Whitman's Luncheonette&Statnry
A1 LAur 5-9430
222-04 Fischer Arnold
hrdwr&paints A1 LAur 8-8730
222-06 Michele's Cleaners ..... LAur 5-1120
222-08 Eva's Beauty Salon ..... LAur 5-9573
222-10 Launder-It ..... A1 LAur 5-4200
222-15 Lou-Mac's Svce Sta ..... LAur 5-9592

223rd 11801

225-04 U S Govt—
Post Office Dept—
Branch Post Offices—
Spfld Grdns ..... D9 LAur 8-4192
223-09 Tanbro Svce Sta Inc ..... LAur 5-9327
223-09 Tanbro Svce Sta Inc ..... LAur 7-8675
223-18 Dosa Svce Sta ..... LAur 5-9429
223-18 Laurelton Auto Body ..... LAur 7-8330

224th 11801

224-01 Geffner Motors ..... LAur 8-2407
224-01 Geffner Motors ... parts&svce LAur 8-7257
224-02 Geffner Motors ..... gas sta LAur 5-9500
224-10 Burstein Rl Est ..... LAur 7-1660
224-10 Sparer Murray H ..... atty A1 LAur 5-4979
If No Ans Call ..... ROckCen 6-1070
224-10 Stephen Brokerage Co ..... LAur 5-4979
224-11 Monteleone Francisco ..... LAur 8-1790
224-13 Daley Home Appliances Co A1 LAur 5-0611
224-14 Bagels&Lox Inc ..... LAur 5-9570
224-14 Laurelton Bagel Bakery Inc ... LAur 5-9570
224-15 Williams Alfred C ..... LAur 7-7641
224-16 Abrams Furs ..... LAur 5-7733
224-17 Laurelton Hrdwr&Paint Co ... LAur 8-7418
224-18 Sivak&Silverman Kosher Meat&Poultry
Mkt ..... LAur 7-1024
224-19 Leeds Mark K ..... atty LAur 5-1641
224-19 Leeds Mark K ..... rl est&aprsls LAur 5-3424
224-19 Leeds of Lrltn Corp
rl est&aprsls LAur 5-3424
224-19 Lipkowitz Hyman ..... LAur 5-0379
224-20 Howard Photo Studio ..... LAur 8-1044
224-21 Silver Murray ..... statnry LAur 5-9706
224-22 Wong's Garden Inc ..... LAur 5-9766

LAURELTON

225th 11801

225-03 Atlas Laurelton Corp ..... J6 LAur 8-2425
225-03 Atlas Laurelton Linoleum &
Screen Corp DO LA ur 8-2425
225-03 Atlas Rug Shop ..... LAur 8-0694
225-03 Atlas Rug Shop ..... LAur 8-2425
225-12 Peter Pan Beauty Salon ... LAur 5-9579
225-14 Dyrne&Sons ..... plmbg LAur 8-5076
225-14 Byrne Thos ..... LAur 5-4518
225-14 Mize Fredk G ..... ins LAur 7-3500
225-15 Elton Plumbing Supl Corp J7 LAur 8-1960
225-16 Balle Wm G ..... elec contr LAur 8-3613
225-16 Berner Bernard ..... ins LAur 7-5000
225-16 Kurz Max ..... ins LAur 7-5000
225-16 Kurz Max Inc ..... ins LAur 7-5000
225-16 Schneider Eugene ..... LAur 8-6328
225-16 Schreiber Wm Inc ..... rl est LAur 8-9688
225-17 Hershowitz Sam ..... grocrs J5 LAur 8-0639
225-17 Ky Food Store ..... LAur 5-9475
225-17 Laurel Super Mkt ..... LAur 5-9475
225-18 Merrick Television Co ..... LAur 8-1022
225-19 Hoffman&De Santis ... uphlstrs LAur 7-8144
225-19 Regent Decorators ..... LAur 7-8144
225-20 Adams Eliz Mrs ..... LAur 8-4941
225-21 Strauss Stores Corp auto accesrs&radios
Queens store Laurelton LAur 5-9690
225-22 Doukas Jas ..... LAur 7-3403
225-22 Laurelton Auto Accesries Inc LAur 7-0161
225-25 Tesch Robt C ..... dntst LAur 5-0122

226th 11801

226-01 Charlie's Tavern ..... AD LAur 5-9019
226-02 Stevens Carpet Shop Inc DB LAur 8-3057
226-03 Handler Minnie ..... statnry LAur 5-9669

MERRICK BLVD (AV) (RD)
LAURELTON

226-13 Rosen's Kosher Delcatesn&Restrnt
LAur 5-9580
226-15 Laurelton Bottery ... shoes LAur 8-1810
226-17 Mi-Ron's ... childrns wear LAur 8-7417
226-18 Hemmer Bros ..... autos LAur 8-1234
226-18 Jewish Community House of Erlsn&
Springfield LAur 5-9445
226-19 Wesley's Hrdwr ..... LAur 8-1747
226-21 Schwartz Emanuel ..... drugs LAur 5-9666

227th 11801

227-01 Laurel Shops ... dry gds J7 LAur 5-9401
227-02 Sanex Chemcl Co
extrmtg supls LAur 8-5600
227-02 Sanex Extrmntg Co ..... LAur 8-5600
227-02 Sanex Fog Svce Co ..... LAur 8-5600
227-02 Sanex Moth Proofing Svce ... LAur 8-5600
227-02 Sanex Pest Contrl Co extmtrs LAur 8-5600
227-02 Sanex Termite Contrl Co ... LAur 8-5600
227-03 Joliz Record Shop ..... LAur 5-1274
227-05 Miller Saml ... statnry A0 LAur 5-9841
227-10 Laurelton Theatr ..... LAur 7-7700
227-12 Wedgewood Studios ..... LAur 7-1300
227-12A Hamil's Statnry ..... LAur 5-9653
227-13 Gurak Saul ..... fur LAur 8-7422
227-14 Save-Rite Electrncs Inc ... LAur 5-4344
227-14 Save-Rite Electrncs Inc ... LAur 5-9680
227-15 South Shore Jobbing Co S8 LA ur 8-7506
227-15 Wolf Meat&Poultry Mkt ..... LAur 8-0573
227-15 Wolf Meat&Poultry Mkt ..... LAur 8-3940
227-15 Zickerman's L Hrdwr Co ... LAur 8-7506
227-16 Commonwealth Quality Meat Mkt
LAur 5-5700
227-18 Murray ..... bty sals LAur 7-3211
227-18 Murray Mr of Fifth Av
bty sals LAur 7-3211
227-20 Raab's Luncheonette ..... LAur 5-9413
227-20 Raab's Luncheonette ..... LAur 8-3258
227-23 Marder's Pharmacy ..... LAur 8-8535
227-23 Marder's Pharmacy ..... LAur 5-9506

228th 11801

228-01 Denmark Harold ... DDS ofc LAur 8-7222
228-01 Mauceri G B ..... MD ofc LAur 8-0020
228-03 Boulevard Shoe Store ... LAur 7-6668
228-04 Delroy Electrcl Applnce Co ... LAur 7-9875
228-04 Paige Alfred J b ..... LAur 5-9349
228-04 Park Sales ... used cars LAur 8-9988
228-05 House of Linens ..... LAur 5-9813
228-07 Ace Window&Door Co Inc ... LAur 8-0570
228-07 Morris David ... veneln blds LAur 8-0570
228-08 Fleming's Restrnt&Bar D6 LAur 5-9721
228-09 Laurelton Paint&Wallpaper Center
A0 LAur 8-2610
228-09 Laurelton Paint&Wallpaper Centr
If no answer ..... Tfld 4-6601
228-11 Merrick Cleaners ..... A1 LAur 8-7622
228-11 Schwartz Tailoring ..... LAur 8-7622
228-13 Woman's World ... bty sals LAur 8-2110
228-15 Campisi Jos P ..... LAur 5-2132
228-15 Laurelton Dairy ..... LAur 8-1136
228-15 Scheiner Saml ..... dalry LAur 8-1136
228-17 Boulevard Mkt ..... LAur 8-2120
228-17 Gottlieb Benj L b ..... LAur 8-2120
228-19 Goldstein M C ..... DDS LAur 8-2876
228-19 Goldstein Maxwell C ... DDS LAur 8-7369
228-19 Schultz Max ..... statnry LAur 5-9762
228-20 Buster's Taxi Svce ..... LAur 5-9816
228-20 Laurelton Svce Sta ..... LAur 5-9547
228-20 Laurelton Svce Sta ..... LAur 5-9816
228-21 Selman Signe Mrs ..... LAur 8-1266
228-23 Esquire French Dry Cleaners LAur 8-0181

229th GRAMERCY 11801

229-02 Cavalier Mens Shop ..... A1 LAur 8-1533
229-02 Dibner Ben B ... podiatrst ofc LAur 8-7472
229-02 Rubenstein Allan A MD ofc J7 LAur 8-4806
229-02 Swerdlove H ..... DDS ofc LAur 8-9369
229-03 Woolworth F W Co 5&10 Cent Stores
No 1990 D4 LAur 8-3359
229-04 Cynthia ..... drses A1 LAur 7-2266
229-06 Laurelton Jewelers Inc ... A1 LAur 5-2521
229-07 Casual Shop ..... D9 LAur 5-8330
229-08 Chateau Interiors Inc ..... LAur 5-9320
229-10 Shadick's Furs ..... J5 LAur 8-9354
229-11 Oscars' Appetizers ..... A0 LAur 5-9880
229-11 Laurelton Appetizers ..... LAur 5-9880
229-12 Laurelton Sweet Shop Inc ... LAur 5-9644
229-13 George's Meat Mkt ..... LAur 8-8242
229-15 Power Food Mkt ..... LAur 8-5650
229-15 Power Food Mkt ..... LAur 8-1032
229-16 Harry's Fish Mkt ..... LAur 8-3949
229-19 Sherry's Bakery ..... LAur 8-7861
229-20 Carwood Radio&Television Svce Inc
A0 LAur 7-0100
229-20 Carwood Stores television A0 LAur 7-0100
229-20 Marla Co-Op Store ..... LAur 7-0100
229-23 Rael Pharmacy ..... LAur 8-6180
Public tel ..... LAur 5-9604
229-25 Coon Geo Dr ... optmtrst LAur 8-5544

230th 11801

230-01 Teicher Oscar S b ..... LAur 8-4412
230-01 Stanley's Farm Specialty Shop Inc
LAur 8-4412
230-02 Foremost Distributrs Inc
paint supls LAur 8-7348
230-02 Foremost Paint Stores ..... LAur 8-7348
230-02 Paint-Craft Supl Co ..... LAur 8-7348
230-03 Stumpf Aug M&Son Inc hrdwr LAur 8-4121
230-04 Dairy Mart ..... LAur 8-9566
230-05 Peck Estelle ... sportswr LAur 8-8210
230-06 Utopia Meat Cntr Inc ... LAur 7-8900

MERRICK BLV
LAUREL

230-27 Rachlis Edw ...

231st FRANC
(CROSS ISLAN

231-01 Friedlander H ...
231-01 Granado Appliance
231-01 Granado Radio Shop
231-01 Mansley Leslie b ...
231-02 Laurelton Cafe ...
231-04 Cutler Bros kosh
231-06 Laurel Pharmacy ...
231-06A Capri Restrnt ...
231-07 Dini Drugs ...
231-08 Modern Crafts Dec
231-08 Sala Jos ...
231-10 Wong's Chow Mein
231-12 Harry's Beauty Salo
231-14 Fidler Rose ...
231-16 Christensen Kal ...
231-16 Laurelton Florist ...
231-18 Brandstatter Edw
231-18 Eddie's Variety Sto
231-19 Al Corn's Men's&Bo
clthng
231-19 Boys' Centr of Laur
clothing&hat
231-20 Gudel Alfred ...
231-22 Hogarty's Tavern ...
231-26 Capital Finance Corp
231-26 Capital Finance Corp
231-28 Town-Craft ...
231-32 Bleach Comber Bea
231-34 Viola's Statnry ...
231-35 Springfield Gardens ...
231-36 Graber Sidney ...
231-36 Graber Sidney Assoc ...
231-36 Lome Max M ...
231-36 Lome&Thierman ...
231-36 Thierman Jos F ...
231-38 Elsie's Corset Shop
231-40 Feldman Sam Meat ...
231-42 AAA Repairite Was
wa
231-42 Piontkowski Walter
231-44 Queens Fabrics ...
231-46 Zlotnick's Shoe Re
231-48 Lumlns Hrdwr&Pain

232nd 11801

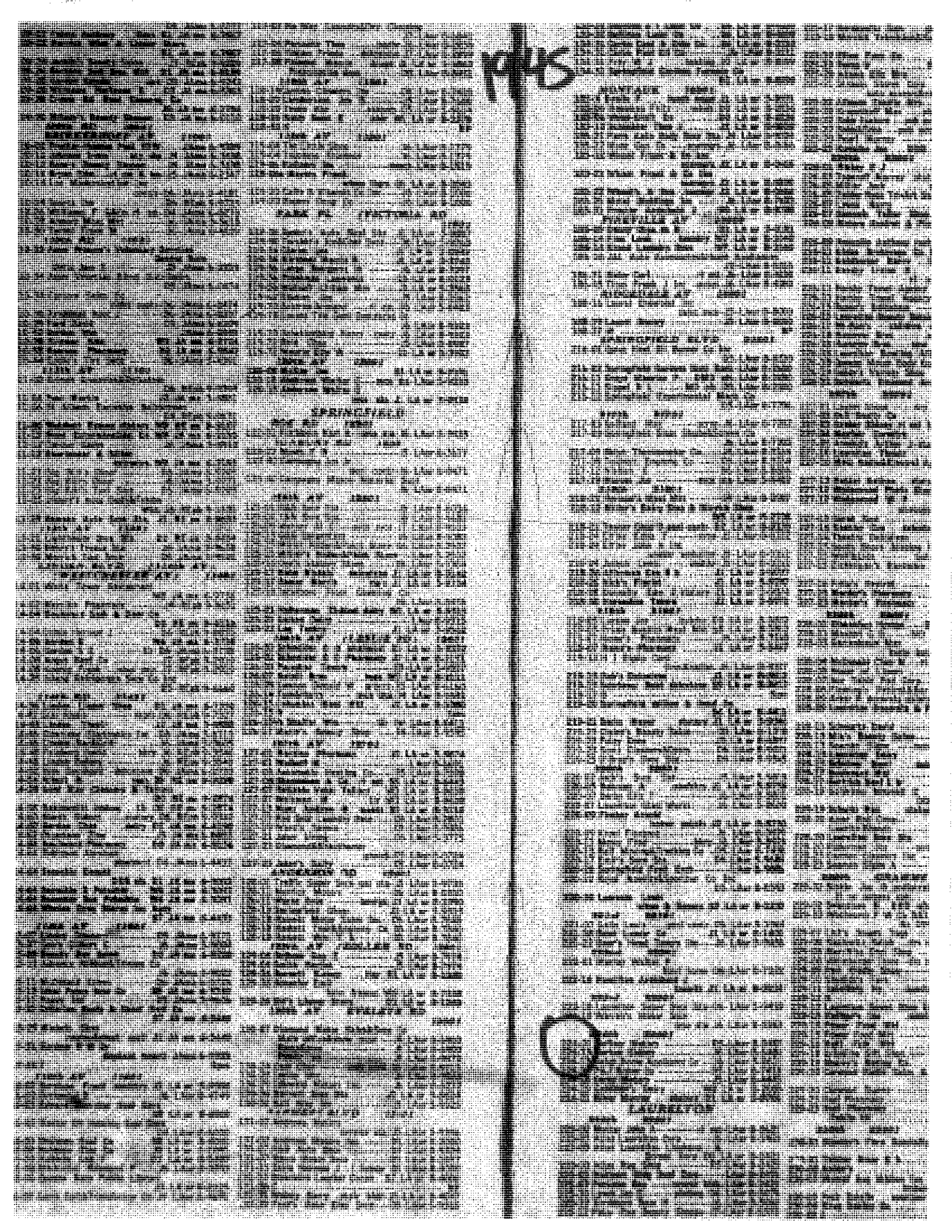
232-01 Jade Restrnt ...
232-02 Ensler's Pharmacy ...
232-02 Whelan Drug Stores
Agencies ...
232-03 Mayfair Corsetrs ...
232-04 Druti Philip M b ...
232-05 Star Auto Accessor
232-06 Atlantic Meat Mkt
232-06 Jacobs John
delcatesn&froze
232-08 Schindler M ...
232-08 Sundial Shoe Store
232-09 Weiss B Harvey op
232-09 Weiss Harvey Optm
232-12 Sonato Jos ...
232-12 Teverini Jas ...
232-14 Parkview Laundry&C
232-14 Snufkatch Aaron ...
232-15 Heintze Carl ...
232-16 Basso Bros ...
232-18 Debs L ...
232-20 Kerns John ...
232-20 Laurelton Bicycle S

233rd 11801

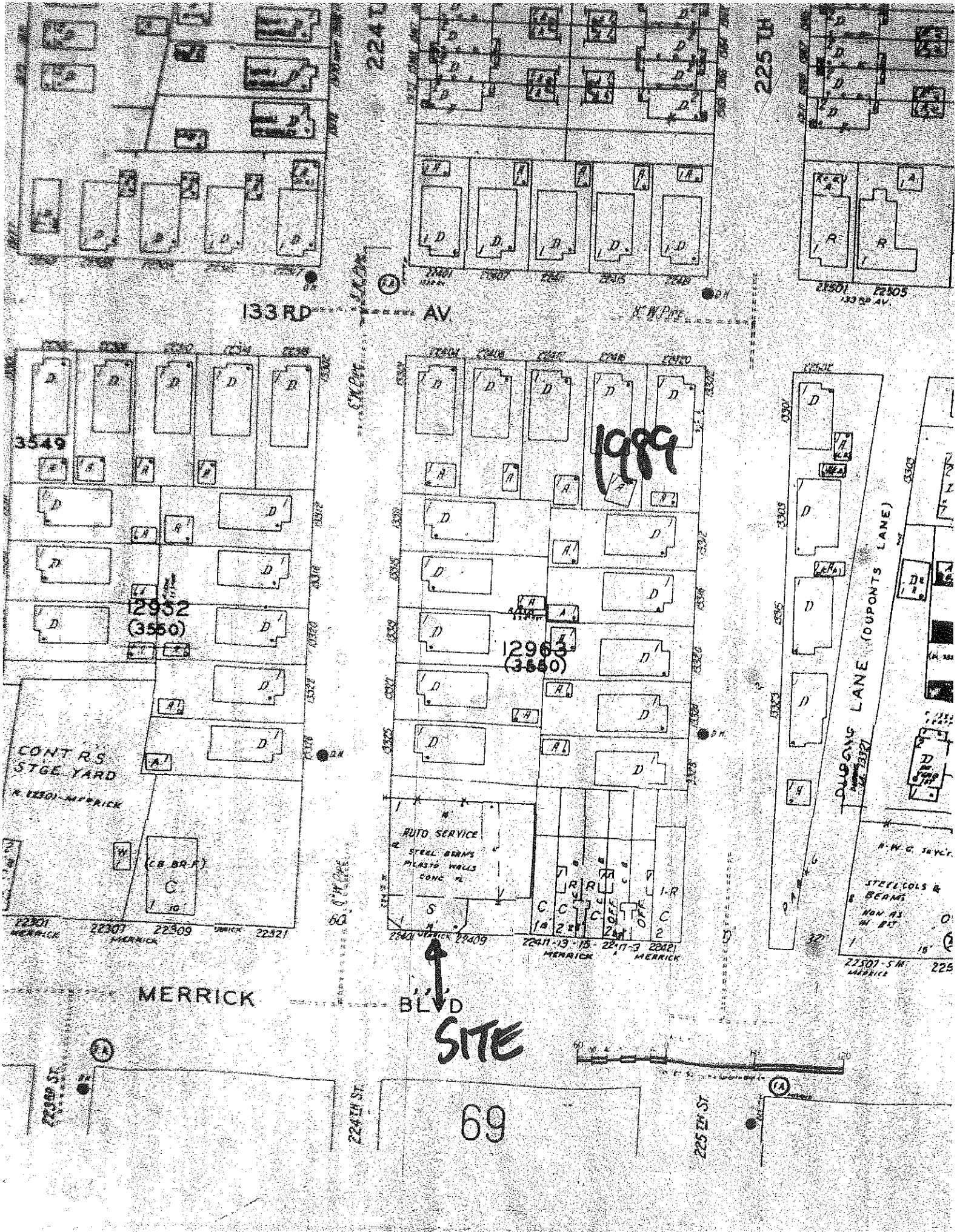
233-01 Parkway Diner ...
233-01 Parkway Diner ...
233-02 Sturry's Steak Hou
233-04 Dunkner's Pharmac
233-04 Dunkner's Pharmacy
pre
233-06 Cross Isl Realty
233-06 Frazier Lyon F ...
233-06 Frazier Leon F ...
233-06 Gabel Harry ...
233-08 Markowitz Benj ...
233-08 Merrick Jewelers ...
233-10 Young Sam ...
233-14 Orion Woodcraft ...
233-16 Cohen&Lewis ...
233-16 Lewis David A Ager
233-18 Breeder Biggs ...
233-18 Laurelton Pet Cntr
233-20 R&H Interior Decor
U

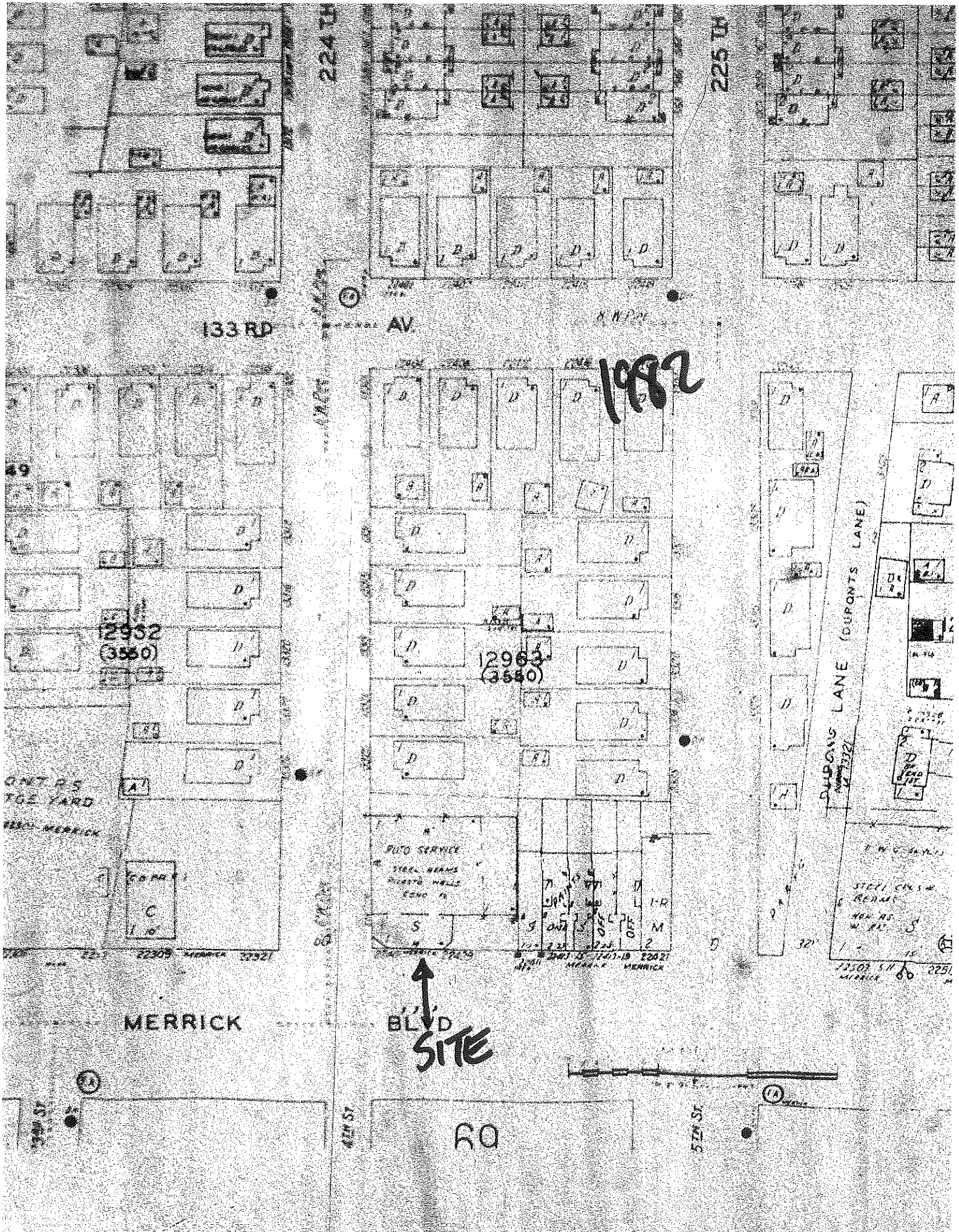
234th 11801

234-01 Colony Corner Lunc
234-02 Bard Albert ...
234-04 Twin Pond Bakery
234-05 Merrick Packing C
I
234-05 Merrick Packing C
234-08 Rossids Infnts&c
234-10 Salnach Dorothy Mr
234-12 Novelle's ...
234-14 Laurelton Grocry
234-14 Natoli Vincent



1935


224TH
225TH
133RD AV.
N.W. PIKE
3549
12932
(3550)
12963
(3550)
1984
DUPONTS LANE (DUPONTS LANE)
CONT'RS STGE. YARD
AUTO SERVICE
STEEL BEAMS
PILASTR WALLS
CONC. FL.
STEEL COLS & BEAMS
MERRICK
BLVD
SITE
69
224TH ST.
225TH ST.


224TH
225TH
133RD AV.
1962
12932
(3550)
12963
(3550)
DUPONTS LANE (DUPONTS LANE)
AUTO SERVICE
STEEL BEAMS
MERRICK
MERRICK BLVD
SITE
6a

(1956)
BORO. OF QUEENS, N.Y. VOL. 14

57 LAURELTON 54

NEW SHEET MAR 1931

109

131 ST

AV.

222ND ST.

223RD ST.

224TH ST.

225TH ST.

226TH ST.

133 RD AV.

MERRICK BLVD

DUBONS LANE (DUPONTS LANE)

56

58

12933 (3549)

12934 (3550)

12935 (3550)

12961 (3548)

12962 (3550)

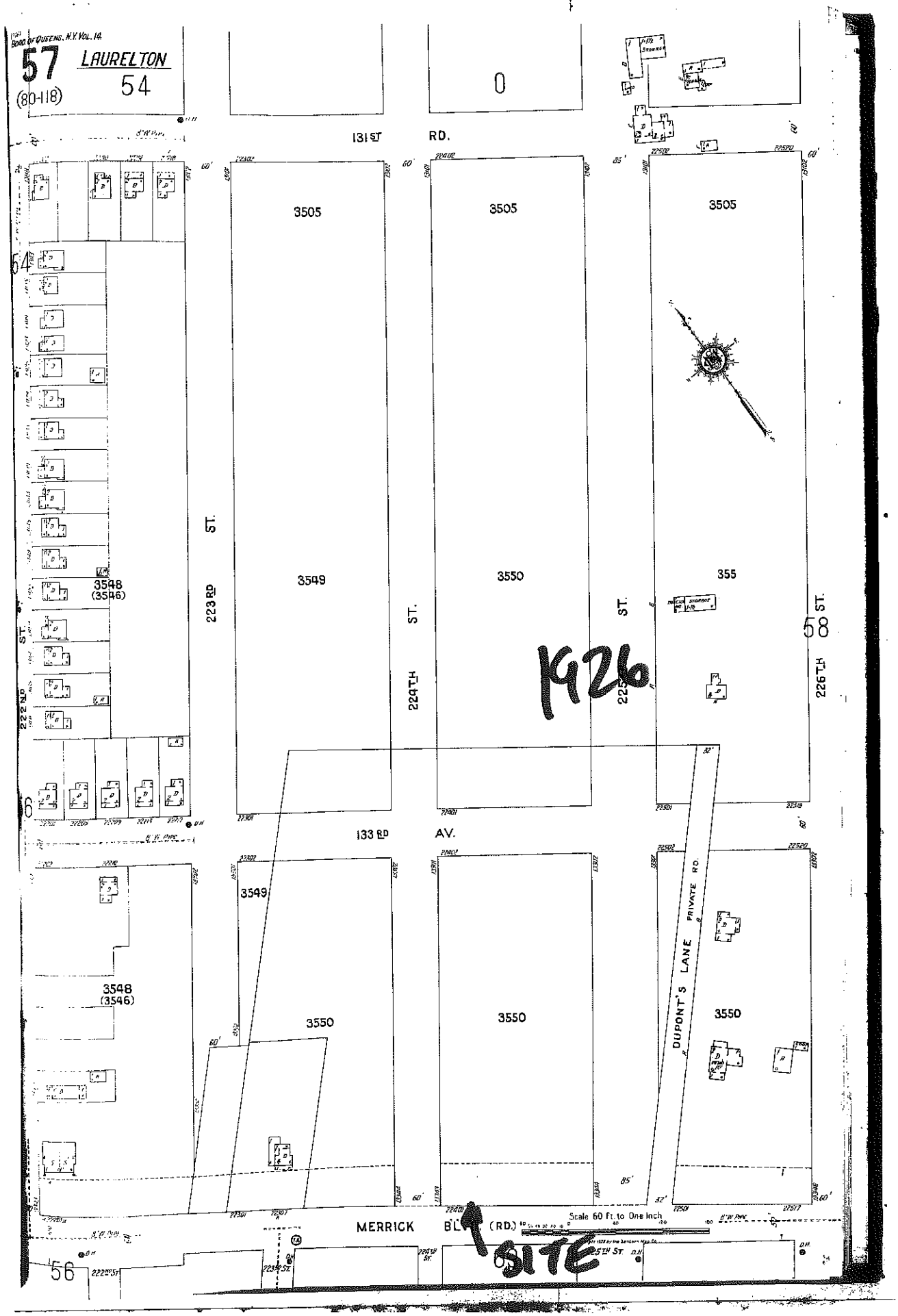
12963 (3550)

12964 (3550)

AUTO SERVICE

UNDERTAKER

SITE


1931 Borough of Queens, N.Y. Vol. 14
57
(80-118)
LAURELTON
54
0
131 ST
RD.
3505
3505
3505
3549
3550
355
3548
(3546)
223 RD
ST.
224 TH
ST.
225
ST.
226 TH
ST.
58
56
133 RD
AV.
3549
3550
3550
3550
3548
(3546)
DUPONT'S LANE
PRIVATE RD.
MERRICK BL (RD.)
Scale 60 Ft. to One Inch
SITE
4926

Appendix B
2012-03 JRH Health and Safety Plan

Health and Safety Plan
For
Property Located at

224-01 Merrick Boulevard
Queens, New York

OER # 12EH-N378Q
March 2012

Prepared by
J.R. Holzmacher P.E., LLC
Consulting Engineers
300 Wheeler Road, Suite 402, Hauppauge, NY 11788

TABLE OF CONTENTS

TABLE OF CONTENTS – continued

TABLE OF CONTENTS – continued

Page

LIST OF APPENDICES

LIST OF FIGURES

LIST OF TABLES

1.0 INTRODUCTION

This section of the Health and Safety Plan (HASP) document defines general applicability and general responsibilities with respect to compliance with Health and Safety programs. This plan has been prepared for excavation/remediation activities to be conducted to determine if subsurface contamination is present. Soil sampling activities are estimated to occur during the excavation period for the proposed new building and sub-grade parking structures at the site.

1.1 Scope and Applicability of the Site Health and Safety Plan

The purpose of this HASP is to define the requirements and designate protocols to be followed during the excavation/remediation activities at the site. Applicability extends to all government employees, contractors, subcontractors, and visitors.

All personnel on site, contractors and subcontractors included, shall be informed of the site emergency response procedures and any potential fire, explosion, health, or safety hazards of the operation. This HASP summarizes those hazards in Table 3.1 and defines protective measures planned for the site.

This plan must be reviewed and an agreement to comply with the requirements must be signed by all personnel prior to entering the exclusion zone or contamination reduction zone.

During development of this plan, consideration was given to current safety standards as defined by the Environmental Protection Agency (EPA)/Occupational Health and Safety Administration (OSHA)/National Institute of Occupational Safety and Health (NIOSH), health effects and standards for known contaminants, and procedures designed to account for the potential for exposure to unknown substances. Specifically, the following reference sources have been consulted:

- OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- USEPA, Office of Emergency and Remedial Response, Emergency Response Team, Standard Operating Safety Guides
- NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidelines
- American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values

1.2 Visitors

There will be no outside visitors allowed on the site during excavation/remediation activities. Outside visitors are defined as those not directly involved with construction and sampling activities.

2.0 KEY PERSONNEL/IDENTIFICATION OF HEALTH AND SAFETY

2.1 Key Personnel

The following personnel and organizations are critical to the excavation/remediation efforts at the site estimated to occur during the excavation activities identified in Figure 1.1 – Construction Activities Schedule. The organizational structure will be reviewed and updated periodically by the site supervisor.

Excavation/Construction Team Representatives:

1. J.R. Holzmacher P.E., LLC
2. Zebra Environmental

TO BE DETERMINED

2.2 Site Specific Health and Safety Personnel

The Site Health and Safety Officer (SHSO) has responsibility for ensuring that the provisions of this HASP are adequate and implemented in the field. Changing field conditions may require decisions to be made concerning adequate protection programs. The SHSO is also responsible for conducting site inspections on a regular basis in order to ensure the effectiveness of this plan.

The SHSO at the site with respect to Phase II investigation activities is:

J.R. Holzmacher P.E., LLC
Heather V. Sonnenberg
Project Engineer

Designated alternates include:

James DeMartinis
Senior Hydrogeologist

TO BE DETERMINED

2.3 Organizational Responsibility

1. The SHSO of the site will conduct site inspections throughout the project making sure the Health and Safety Plan is followed. His main concern is the personal protection of the workers.

3.0 TASK SAFETY AND HEALTH RISK ANALYSIS

3.1 Historical Overview of Site

The subject property, 224-01 Merrick Boulevard, is a 10,000 square foot parcel located on the northeast corner of the intersection of Merrick Boulevard and 224th Street in Springfield Gardens, New York. A one story building with no basement, built in 1945 (now vacant), occupies 7,100 of the property. This property has been designated with a Hazardous Materials "E" (E-219) as part of the Laurelton Rezoning Action (CEQR # 08DCP073Q).

Based on available Sanborn Maps from 1929 to 1949, the property was designated as an auto sales and service facility later auto parts sales and service. It was most recently occupied by R & L Strauss. There was an underground 1,000 gallon waste oil tank that was removed without incident in 2003.

3.2 Task-by-Task Risk Analysis

The evaluation of hazards is based upon the knowledge of the site background presented in Section 3.1 above, and anticipated risks posed by the specific tasks to be performed.

The following subsections describe each task/operation in terms of the specific hazards associated with it. In addition, the protective measures to be implemented during completion of those tasks are also identified.

Table 3.1 provides a summary of task analysis and chemical hazards potentially encountered at the Site.

TABLE 3.1
TASK ANALYSIS
POTENTIAL CHEMICAL HAZARDS OF CONCERN

Contaminant	PEL/TLV	LEL (%)	IDLH
VOCs			
Benzene	1/0.5ppm	1.2	500 ppm
Toluene	200/50 ppm	1.1	500 ppm
Xylenes	100/100 ppm	~1	900 ppm
Ethyl benzene	100/100ppm	0.8	800 ppm
MTBE	NE/50ppm	NE	NE
Diesel Fuel	NE/100mg/m^3		Ca (exhaust)
Gasoline	NE/300	1.4	Ca

Lead	0.05/0.05 mg/m^3	NA	100 mg/m^3
PCBs	0.5-1 mg/m3	NA	5 mg/m^3
PAHs	0.2 mg/m^3	NA	1750 mg/m^3
Pesticides	Variable	NA	NA
Arsenic	0.01 mg/m^3	NA	5 mg/m^3
Mercury	0.025 mg/m^3	NA	10 mg/m^3

NE – not established
Ca - Cancer
Notes:

1. TLV = Threshold Limit Value
2. IDLH = Immediately Dangerous to Life and Health

3.3 Physical Hazards -Soil Sampling and Excavation

3.3.1 Hazard Identification and Prevention

- Safety related work practices would be used to prevent electric shock or other injuries resulting from either direct or indirect electrical contacts. Overhead power lines, buried cables and electrical equipment used on site all pose a danger of shock or electrocution if workers contact or sever them during field operations.

- New York State law requires that a utility mark out to be performed at a site at least 72 hours prior to starting any subsurface work. The tank removal contractor will contact New York City One Call (1-800-272-4480) to request a mark out of underground utilities in the proposed excavation and drilling areas. Work will not begin until the required utility clearances have been completed.

- Public utilities typically do not mark-out utility lines that are located on private property. Therefore, JRH will exercise due diligence and try to identify the location of any private utilities at the site. A private utility contractor will clear on-site subsurface disturbance locations for utilities prior to the commencement of any such work. JRH will also use as-built drawings for the area being investigated, perform a line locating survey, and identify a no-dig/drill zone and hand dig if there is insufficient data to determine the location of utility lines.

- Care must be taken to ensure loose clothing does not get tangled in any moving equipment while borings are being drilled.

- There may be slip or trip hazards associated with rough, slippery or elevated work surfaces at the site. The sampling sites could contain a number of slip, trip and fall

hazards for site workers, such as: holes, pits, or ditches; excavation faces and slippery surfaces (steep grades, uneven grades, snow and ice and sharp objects).

- Drilling or excavating is dangerous during electrical storms. All field activity must terminate when thunderstorms are evident. Extreme heat and cold, ice and heavy rain can produce unsafe conditions for drilling work. Such conditions, when present, will be evaluated on a case-by-case basis to determine if work shall terminate.

- The use of an excavator and other equipment that are gasoline or fuel powered presents the possibility of encountering fire and explosion hazards.

- Plants and animals that are known to be hazardous to humans may affect work that takes place. Spiders, bees, wasps, hornets, ticks, poison oak and poison ivy are only some of the hazards that may be encountered. Individuals who may potentially be exposed to these hazards should be made aware of their existence and instructed in their identification. Emergencies resulting from contact with a natural hazard should be handled through the normal medical emergency channels. Individuals who are sensitive to these types of "natural" hazards should indicate their susceptibility to the SHSO.

- Work on-site will involve the use of heavy construction equipment such as an excavator. The unprotected exposure of site workers to this noise during field activities can result in noise induced hearing loss. The SHSO will monitor the noise exposure for the initial trip and determine whether noise protection is warranted for each of the team members. The SHSO will ensure that either ear muffs or disposable foam earplugs are made available to all personnel and are used by the personnel in the immediate vicinity of the field operation as required.

3.4 Chemical Hazards

3.4.1 General Description

There is potential low-level VOC and SVOC contamination because the site was formerly occupied by an auto repair shop. The current building was constructed in 1945 and has been used for auto parts sales and service. The building is being renovated and a small cellar will be added during the renovation.

Potential chemical hazards below the building slab are evaluated below. It is anticipated that petroleum compounds and dust could be of concern. The potential for exposure to vapors, contaminated dusts, and contaminated soil/groundwater is of utmost concern.

3.4.2 Potential Chemical Health Hazards

Benzene

Exposure to benzene above the Permissible Exposure Limit (PEL) may produce skin irritation with potential for redness, blistering and burning. Overexposure may also result in irritation of the mucous membranes for the upper respiratory tract, nose and mouth causing difficulty breathing and possible pulmonary edema. Symptoms of exposure include headache, confusion, dizziness and tightening of the leg muscles. The OSHA PEL for benzene is 1 ppm. The American Conference of Governmental Industrial Hygienists recommends a Threshold Limit Value (TLV) of 0.5 ppm for benzene based on classification as a confirmed human carcinogen.

Toluene

Exposure to the vapors of toluene above the Permissible Exposure Limit (PEL) may produce irritation of the mucous membranes of the upper respiratory tract, nose and mouth. Overexposure may also result in depression of the central nervous system. Symptoms of such exposure include drowsiness, headache, fatigue and intoxicated behavior. The PEL for toluene is 200 ppm. The American Conference of Governmental Industrial Hygienists (ACGIH) recommends a Threshold Limit Value (TLV) of 50 ppm for toluene due to effects on the central nervous system.

Xylene

Xylene is a flammable, colorless liquid with an OHSA PEL of 100 ppm. Inhalation of xylene vapors above the PEL may result in motor activity changes, headaches, dizziness, drowsiness and intoxicated behavior. Inhalation can also cause nose, throat and respiratory tract irritation, causing difficulty in breathing and possible pulmonary edema on high exposure. Xylene vapors are also irritating to the eye and potential redness, blistering and serious burning of the skin. Xylene can pass through intact skin to cause systemic effects, including narcosis. The ACGIH recommends a TLV of 100 ppm for xylene due to irritant effects.

Methyl Tertiary-Butyl Ether (MTBE)

Methyl tertiary-butyl ether is a chemical compound that is manufactured by the chemical reaction of methanol and isobutylene. MTBE is almost exclusively used as a fuel additive in motor gasoline. It is one of a group of chemicals commonly known as “oxygenates” because they raise the oxygen content of gasoline. At room temperature, MTBE is a volatile, flammable and colorless liquid that dissolves rather easily in water.

The majority of the human health-related research conducted to date on MTBE has focused on effects associated with the inhalation of the chemical. When research animals inhaled high concentrations of MTBE, some developed cancers or experienced other non-cancerous health effects. OSHA has not established a PEL or MTBE. The ACGIH has established a TLV of 50 ppm based on its effects on the kidney and reproductive system and gives it an A3 carcinogenicity rating. This means that it is a known animal carcinogen with unknown significance to humans.

Lead

The effects of lead exposure are long-term in nature. Early signs of lead poisoning include fatigue, headache, uneasy stomach, metallic taste and irritability. Later signs include memory loss, nausea, muscle/joint pains, stomachaches, weight loss and kidney problems.

Lead dust can be inhaled. Particles of lead can be swallowed if lead gets on clothing, hands or beard or into food or drinks. There will be no eating, drinking or smoking in the work area (the tunnels and access rooms). It will also be important to wash your hands and face before eating, drinking, or smoking outside of the work area.

PCBs

Polychlorinated biphenyls are mixtures of up to 209 individual chlorinated compounds (known as congeners). There are no known natural sources of PCBs. PCBs are either oily liquids or solids that are colorless to light yellow. Some PCBs can exist as a vapor in air. PCBs have no known smell or taste. Many commercial PCB mixtures are known in the U.S. by the trade name Aroclor.
Exposure to PCBs causes eye irritation, chloracne and liver toxicity. Arochlor 1254 is a known animal carcinogen that may or may not cause cancer in humans. PCBs are readily absorbed through the skin. The OSHA PEL ranges from 0.5-1 mg/m3. The ACGIH has also set TLVs between 0.5-1 mg/m^3 based on its irritant effects and its ability to cause chloracne and liver damage.

Polycyclic Aromatic Hydrocarbons (PAHS or SVOCs)-

PAHs are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances such as tobacco or charbroiled meat. PAHs are regulated based on effects of respiratory tract and skin irritation as well as eye irritation and nervous system disturbances. Acute exposures cause difficulty in breathing, skin/eye irritation and burns.

The Occupational Safety and Health Administration (OSHA) have set a limit of 0.2 milligrams of PAHs per cubic meter of air (0.2 mg/m^3). The OSHA

Permissible Exposure Limit (PEL) for mineral oil mist that contains PAHs is 5 mg/m³ averaged over an 8-hour exposure period.

The National Institute for Occupational Safety and Health (NIOSH) recommends that the average workplace air levels for coal tar products not exceed 0.1 mg/m³ for a 10-hour workday, within a 40-hour workweek. There are other limits for workplace exposure for things that contain PAHs, such as coal, coal tar, and mineral oil.

Pesticides

A pesticide is a substance or mixture of substances intended to prevent, destroy, repel or mitigate any pest. The health effects of pesticides depend on the type of pesticide. Some such as organophosphates and carbamates, affect the nervous system. Others may irritate the skin or eyes. Other may affect the hormone or endocrine system in the body. EPA human health risk assessments for many pesticides are available at http://cfpub.epa.gov/oppref/rereg/status.cfm.

Arsenic

Arsenic is a naturally occurring element combined with oxygen, chlorine and sulfur to form inorganic arsenic compounds. Overexposure to arsenic may cause vomiting, ulceration of the nasal septum, hoarse voice, sore throat, numbness in extremities, respiratory irritation, and skin/eye irritation. The EPA has set limits on the amount of arsenic that industrial sources can release to the environment and has restricted or cancelled many of the uses of arsenic in pesticides. EPA has set a limit of 0.01 parts per million (ppm) for arsenic in drinking water.
The Occupational Safety and Health Administration (OSHA) have set a permissible exposure limit (PEL) of 10 micrograms of arsenic per cubic meter of workplace air (10 µg/m³) for 8 hour shifts and 40 hour work weeks.

Mercury

Mercury occurs naturally in the environment and exists in several forms. Overexposure may cause headache, drowsiness or insomnia, weakness, and pink skin on hands and feet. OSHA regulates levels of mercury in the workplace. It has set limits of 0.1 milligrams of mercury per cubic meter of air (mg/m³) for organic mercury and 0.05 mg/m³ for metallic mercury vapor in workplace air to protect workers during an 8-hour shift and a 40-hour workweek. NIOSH recommends that the amount of metallic mercury vapor in workplace air be limited to an average level of 0.05 mg/m³ during a 10-hour work shift.

3.4.3 First Aid

If soil comes in contact with the eyes immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Contact lenses

should not be worn but can be protected by safety glasses/goggles. If lead contaminated soil comes in contact with the skin, wash the skin with soap and water prior to leaving the site. If a person breathes in large amounts of dust, move the exposed person to fresh air at once. If contaminated soil has been swallowed, get medical attention immediately (NIOSH, 1987).

4.0 PERSONNEL TRAINING REQUIREMENTS

Consistent with OSHA 29 CFR 1910.120 regulation covering Hazardous Waste Operations and Emergency Response, all site personnel are required to be trained in accordance with the standard. At a minimum, all personnel are required to be trained to recognize the hazards on-site, the provisions of this HASP, and the responsible personnel. The SHSO at the site pre-entry briefing(s) or periodic site briefings will discuss this plan.

5.0 PERSONNEL PROTECTIVE EQUIPMENT TO BE USED

This section describes the general requirements of the EPA designated Levels of Protection (A through D), and the specific levels of protection required for each task at the Site.

5.1 Levels of Protection

Personnel will wear the appropriate protective equipment when response activities involve known or suspected atmospheric contamination, vapors, gases, or particulates may be generated by site activities, or when direct contact with skin-affecting substances may occur. Full facepiece respirators protect lungs, gastrointestinal tract, and eyes against airborne toxicants. Chemical-resistant clothing protects the skin from contact with skin-destructive and absorbable chemicals.

The specific levels of protection and necessary components for each have been divided into four categories according to the degrees of protection afforded:

Level A: Should be worn when the highest level of respiratory, skin, and eye protection is needed.

Level B: Should be worn when the highest level of respiratory protection is needed, but a lesser level of skin protection. Level B is the primary level of choice when encountering unknown environments.

Level C: Should be worn when the criteria for using air-purifying respirators are met, and a lesser level of skin protection is needed.

Level D: Should be worn only as a work uniform and not in any area with respiratory or skin hazards. It provides minimal protection against chemical hazards.

Modifications of these levels are permitted, and routinely employed during site work activities to maximize efficiency. For example, Level C respiratory protection and Level D skin protection may be required for a given task. Likewise the type of chemical protective ensemble (i.e., material, format) will depend upon contaminants and degrees of contact.

The Level of Protection selected is based upon the following:

- Type and measured concentration of the chemical substance in the ambient atmosphere and its toxicity.
- Potential for exposure to substances in air, liquids, or other direct contact with material due to work being done.
- Knowledge of chemicals on-site along with properties such as toxicity, route of exposure, and contaminant matrix.

In situations where the type of chemical, concentration, and possibilities of contact are not known, the appropriate Level of Protection must be selected based on professional experience and judgment until the hazards can be better identified.

5.2 Level D Personnel Protective Equipment:

- Disposable Tyvek^{R} coveralls (as needed)
- Disposable Nitrile Exam gloves (as needed)
- Disposable Tyvek^{R} booties (as needed)
- Steel-tipped work boots
- Safety glasses
- Hard hat
- 3M N95 Dust Masks with Exhalation Valves (if needed)

5.3 Reassessment of Protection Program

The Level of Protection provided by PPE selection shall be upgraded or downgraded based upon changes in site conditions or investigation findings. When a significant change occurs, the hazards should be reassessed. Some indicators of the need for reassessment are:

- Commencement of a new work phase.
- Change in job tasks during a work phase.
- Change of season/weather
- When temperature extremes or individual medical considerations limit the effectiveness of PPE.
- Change in work scope, which affects the degree of contact with contaminants.

5.4 Work Mission Duration

Before the workers actually begin work in their PPE ensembles, the anticipated duration of the work mission will be established. Several factors limit mission length, including:

- Air supply consumption (SCBA use)-**Not Applicable.**
- Suit/Ensemble permeation and penetration rates for chemicals-**Not Applicable.**
- Ambient temperature and weather conditions (heat stress/cold stress).
- Capacity of personnel to work in PPE.

5.5 Personal Protective Equipment Recommended for Site

The following specific clothing materials are recommended for the site:

A. Soil Sampling – Level D

Site activities will require PPE as follows: hardhat, disposable Tyvek^{R} coveralls (if needed), disposable Tyvek^{R} booties (if needed), safety glasses and chemical resistant gloves. Particulate respirator-3M N95 Dust Masks with exhalation valves will be available.

5.6 SOP for Personal Protective Equipment

Proper inspection of PPE features several sequences of inspection depending upon specific articles of PPE and it's frequency of use. The different levels of inspection are as follows:

- Inspection and operation testing of equipment received from the factory or distributor.
- Inspection of equipment as it is issued to workers.
- Inspection after use or training and prior to maintenance.
- Periodic inspection of stored equipment.
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise.
- The primary inspection of the PPE in use for activities at the Site will occur prior to immediate use and will be conducted by the user. This ensures that the specific device or article has been checked-out by the user and that the user is familiar with its use.

TABLE 5.1
SAMPLE PPE INSPECTION CHECKLIST

CLOTHING

Before use:

- Determine that the clothing material is correct for the specified task at hand.
- Visually inspect for:
  - Imperfect seams
  - Non-uniform coatings
  - Tears
  - Malfunctioning closures
- Hold up to light and check for pinholes.
- Flex product:
  - Observe for cracks
  - Observe for other signs of shelf deterioration
- If the product has been used previously, inspect inside and out for signs of chemical attack:
  - Discoloration
  - Swelling
  - Stiffness

During the work task:

- Evidence of chemical attack such as discoloration, swelling, stiffening, and softening. Keep in mind, however, that chemical permeation can occur without any visible effects.
- Closure failure.
- Tears.
- Punctures.
- Seam Discontinuities.

GLOVES

Before use:

- Visually inspect for:
  - Imperfect seams
  - Tears
  - Non-uniform coating
  - Pressurize glove with air; listen for pinhole leaks.

5.7 Specific Levels of Protection Planned for the Site

The following levels of protection will be utilized during activities at the Site:

- Level D

6.0 FREQUENCY AND TYPES OF AIR MONITORING/SAMPLING

This section explains the general concepts of an air-monitoring program and specifies the surveillance activities that will take place during project completion at the Site.

The purpose of air monitoring is to identify and quantify airborne contaminants in order to verify and determine the level of worker protection needed. Initial screening for identification is often qualitative, i.e., the contaminant, or the class to which it belongs, is demonstrated to be present, but the determination of its concentration (quantification) must await subsequent testing. Two principal approaches are available for identifying and/or quantifying airborne contaminants:

- The on-site use of direct-reading instruments.
- Laboratory analysis of air samples obtained by a gas-sampling bag, collection media (i.e., filter, sorbent) and/or wet-contaminant collection methods.

6.1 Direct-Reading Monitoring Instruments

Unlike air sampling devices, which are used to collect samples for subsequent analysis in a laboratory, direct-reading instruments provide information at the time of sampling, enabling rapid decision-making. Data obtained from the real-time monitors are used to assure proper selection of personnel protection equipment, engineering controls, and work practices. Overall, the instruments provide the user the capability to determine if site personnel are being exposed to concentrations that exceed exposure limits or action levels for specific hazardous materials.

Of significant importance, especially during initial entries, is the potential for IDLH conditions or oxygen deficient atmospheres. Real-time monitors can be useful in identifying any IDLH conditions, toxic levels of airborne contaminants, flammable atmospheres, or radioactive hazards. Periodic monitoring of conditions is critical, especially, as exposures may have increased since initial monitoring or if new site activities have commenced.

6.2 Site Air Monitoring and Sampling Program

A. Air Monitoring Instruments

- **Organic Vapor Monitoring**

Instrument :Photoionization Detector (PID) with for use during all intrusive activities (10.6 Ev lamp).

Instrument: Detector Tubes – for measuring benzene and vinyl chloride concentrations.

Monitoring for organic vapors will be conducted in the breathing zone of employees using a PID during intrusive activities. Refer to Table 6.1 for total volatile organic vapor and benzene action levels.

- **Combustible Gas Monitoring**

Instrument: Combustible Gas Indicator (CGI)/ Oxygen Meter

Continuous air monitoring with a CGI/Oxygen meter will be conducted in areas where flammable vapors or gases are suspected. All work activities must stop where the monitor indicates the concentration of flammable vapors exceeds ten percent of the lower flammable limit (LEL) at a location with a potential ignition source. The area must be ventilated to reduce the concentration to below ten percent of the LEL.

- **Dust Monitoring**

Instrument: TSI DustTrak Model 8520 (or equivalent)

Continuous dust monitoring during all site activities will be conducted. Dust mitigation must be employed should readings exceed 10 mg/m3.

- **Calibration and Record keeping**

Equipment used will be calibrated in accordance with the manufacturers' specifications. The PID and CGI will be calibration checked before and after use under approximately the same conditions at which the instrument will be used. Calibration information will be kept in the field notebook or instrument log. The date, time, location, instrument serial number, calibration gas and concentration, will be noted.

B. Action Levels

TABLE 6.1

SITE AIR MONITORING AND SAMPLING PROGRAM SUMMARY

Instrument	Action Level	Action
PID (10.6 ev)	Continuous readings to 9ppm	Remain in level D PPE.
PID	Continuous reading of 10 to 100 ppm above background	Level D PPE but screen with Drager detection tube for benzene. If benzene detected >1 ppm upgrade to Level C and wear an organic vapor (OV) cartridge/air-purifying respirator (APR). Investigate source.
PID	Continuous reading over 100 ppm background	Stop Work. Reevaluate work conditions and procedures, Contact SHSO prior to continuing for authorization.
Drager Tubes:	1- 10 ppm	Upgrade PPE to level C with OV/APR.

Benzene		
Drager Tubes: Benzene	>10 ppm	Stop Work . Reevaluate work conditions and procedures. Contact SHSO prior to continuing for authorization.
Combustible Gas Indicator	Continuous reading of 0% to 1% lower explosive level (LEL).	Remain in level D PPE. If no benzene present, assume source is methane. Continuously monitoring LEL.
Combustible Gas Indicator	Continuous reading of 1% to 10% LEL	Level D unless benzene is present. Investigate source and ventilate, if possible. SHSO may require upgrade to Level C PPE.
Combustible Gas Indicator	Continuous reading > 10% LEL	Stop Work. Evacuate work area and ventilate source of combustible gas, if possible, Contact SHSO prior to continuing for authorization.
Dust Monitor	Continuous reading >10.0 mg/m^3	Suppress by spraying the dusty area with water.

Notes: PEL = Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit
REL = National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limit
TLV = American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value

C. Reporting Format

- Air Monitoring Log

6.3 Site Ambient Air Sampling

A. Sampling Criteria

A site ambient air sampling program will be considered if the following criteria are met:

1. Meteorological conditions
2. Health and safety observations
3. Particulate levels are two to three times above background.
4. Site specific activities
5. Site activity increases airborne contaminant(s) exposure potential.

7.0 SITE CONTROL MEASURES

The following section defines measures and procedures for maintaining site control. Site control is an essential component in the implementation of the site health and safety program.

7.1 Buddy System

During all Level B, C or D activities or when some conditions present a risk to personnel, the implementation of a buddy system is recommended if not mandatory. A buddy system requires at least two (2) people to work as a team, each looking out for each other. Table 8.1 lists those tasks, which require a buddy system and any additional site control requirements.

TABLE 7.1
PERSONNEL REQUIREMENTS

Task	Control Measures
Soil Sampling	Line of sight, buddy system

7.2 Site Communications Plan

Successful communications between field teams and personnel in the support zone is essential. The following communications systems will be available during activities at the Site.

- Hand Signals
- Direct Vocal Communication
- For hand signal communications, the following definitions will apply during activities at the Site:

TABLE 7.2
HAND SIGNAL DEFINITIONS

Signal	Definition
Hands clutching throat	Out of air/cannot breath
Hands on top of head	Need assistance
Thumbs up	OK/I am all right/I understand
Thumbs down	No/Negative
Arms waving upright	Send backup support
Grip partners wrist	Exit area immediately

7.3 Work Zone Definition

The three general work zones established at the Site are the Exclusion Zone, Contamination Reduction Zone, and Support Zone. One of the basic elements of effective site soil remediation activities is the delineation of work zones. The purpose of establishing work zones is to:

- Reduce the accidental spread of hazardous substances by workers or equipment from the contaminated areas to the clean areas;
- Confine work activities to the appropriate areas, thereby minimizing the likelihood of accidental exposures;
- Facilitate the location and evacuation of personnel in case of an emergency; and
- Prevent unauthorized personnel from entering controlled areas.

Although a site may be divided into as many zones as necessary to ensure minimal employee exposure to hazardous substances, this plan uses the three most frequently identified zones in similar projects. These zones are the Exclusion Zone, the Decontamination Zone, and the Support Zone (sometimes referred to by others as the "clean zone"). Movement of personnel and equipment between these zones should be minimized and restricted to specific access control points to minimize the spreading of contamination, if encountered.

7.3.1 Exclusion Zone

The Exclusion Zone is the area where contamination is either known or expected to occur and where the greatest potential for exposure exists. No contamination is actually known to exist on this site. Therefore, the following protective measures will be taken in the Exclusion Zone.

Unprotected onlookers will be restricted from suspicious pre-screened soils requiring sampling such that they are 25 feet upwind or 50 feet downwind of excavation or drilling activities.

Those conducting activities and sampling in the Exclusion Zone will wear the applicable Personal Protective Equipment (PPE). The actions to be taken and PPE to be worn in the Exclusion Zone if VOCs are determined with the PID to be above background are described in Section 6 and Table 6.1.

7.3.2 Decontamination Zone

A Decontamination Zone will be established between the Exclusion Zone and the Support Zone, and will include the personnel, equipment and supplies that are needed to decontaminate equipment and personnel. The size will be selected by the SHSO to be sufficient to conduct the necessary decontamination activities. Personnel and equipment in the Exclusion Zone must pass through this zone before leaving or entering the Support Zone. This zone should always be established and maintained upwind of the Exclusion Zone.

7.3.3 Support Zone

The Support Zone will surround the Decontamination Zone and the Exclusion Zone. Break areas, operational direction and support facilities will be located in this area. Eating, smoking and drinking will be allowed only in this area.

7.4 Nearest Medical Assistance

Figure 7.1 shows a map of the route to the Flushing Hospital Medical Center (718-670-5000), which is the nearest hospital that can provide emergency care for individuals who may experience an injury or exposure on site. The route to the hospital will be verified by the SHSO, and will be familiar to all site personnel.

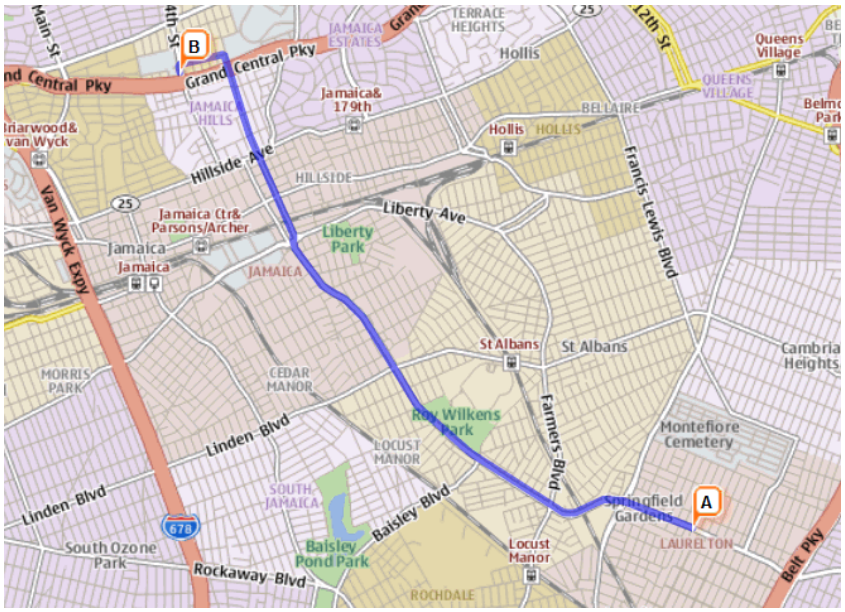


FIGURE 7.1

Directions	**Distance**

224-01 Merrick Blvd, Queens, NY 11413

1. Head toward 224th St on Merrick Blvd. Go for 3.1 mi/5.0 km.
2. Bear onto 168th St. Go for 1.2 mi/1.9 km.
3. Turn onto 82nd Rd. Go for 0.3 mi/442 m.
4. Turn onto 164th St. Go for 216 ft/66 m.
5. Your destination on 164th St is on the right. The trip takes 4.6 mi/7.5 km and 18 mins.

82-68 164th St, Jamaica, NY 11432

Total Est. Time: 18 mins, Distance: 4.3 miles

Start:

Start at 224-01 MERRICK BLVD, QUEENS New York

End:
QUEENS HOSPITAL CENTER
(718) 883-3000
82-68 164th Street, NY 11432

7.5 Safe Work Practices

Table 7.3 provides a list of standing orders for the Exclusion Zone.
Table 7.4 provides a list of standing orders for the Decontamination Zone.

7.6 Emergency Alarm Procedures

The warning signals described in Section 9.4 "Evacuation Routes and Procedures," will be deployed in the event of an emergency. Communication signals will also be used according to Section 7.2.

TABLE 7.3
STANDING ORDERS FOR EXCLUSION ZONE

- No smoking, eating, or drinking in this zone.
- No horseplay.
- No matches or lighters in this zone.
- Check-in on entrance to this zone.
- Check-out on exit from this zone.
- Implement the communications system.
- Line of sight must be in position.
- Wear the appropriate level of protection as defined in the HASP.

TABLE 7.4
STANDING ORDERS FOR CONTAMINATION REDUCTION ZONE

- No smoking, eating, or drinking in this zone.
- No horseplay.
- No matches or lighters in this zone.
- Wear the appropriate level of protection.

8.0 DECONTAMINATION PLAN

Consistent with the levels of protection required, the decontamination table(s) provides a step-by-step representation of the personnel decontamination process. These procedures should be modified to suit site conditions and protective ensembles in use.

8.1 Standard Operating Procedures

Decontamination involves the orderly controlled removal of contaminants. Standard decontamination sequences are presented in Table 8.1. All site personnel should minimize contact with contaminants in order to minimize the need for extensive decontamination. Personnel shall clean on-site as much gross contamination from clothing and equipment, as possible.

8.2 Levels of Decontamination Protection Required for Personnel

The levels of protection required for personnel assisting with decontamination will be Level D. The SHSO is responsible for monitoring decontamination procedures and determining their effectiveness.

8.3 Equipment Decontamination

Sampling equipment will be dedicated to each sample as practicable. Appendix A is the decontamination protocol for equipment. After on-site decontamination, non-disposable materials, such as gloves and booties, will be placed in plastic bags and for proper disposal off site.

8.4 Disposition of Decontamination Wastes

Contaminated disposable materials will be left in a secured condition on-site.

TABLE 8.1	
LEVEL D DECONTAMINATION STEPS	
Step 1	Remove outer garments (i.e., coveralls) and boots
Step 2	Remove gloves
Step 3	Wash hands and face

9.0 EMERGENCY RESPONSE/CONTINGENCY PLAN

This section describes contingencies and emergency planning procedures to be implemented at the Site. This plan is compatible with local, state and federal disaster and emergency management plans, as appropriate.

9.1 Pre-Emergency Planning

During the site briefing held periodically/daily, all employees will be trained in and reminded of provisions of the emergency response plan, communication systems, and evacuation routes. Table 9.1 identifies potential hazards associated with site activities, along with the available emergency prevention/control equipment and its location. The plan will be reviewed and revised, if necessary, on a regular basis by the SHSO. This will ensure that the plan is adequate and consistent with prevailing site conditions.

TABLE 9.1
EMERGENCY RECOGNITION/CONTROL MEASURES

HAZARD	PREVENTION/CONTROL	LOCATION
Fire/Explosion	Fire Extinguisher	Site Trailer and Heavy Equipt. mounted
Spill	Sorbent Materials	Not Applicable
Air Release	Evacuation Routes	Not Applicable

9.2 Personnel Roles and Lines of Authority

The Site Supervisor has primary responsibility for responding to and correcting emergency situations. This includes taking appropriate measures to ensure the safety of site personnel and the public. Possible actions may involve evacuation of personnel from the site area, and evacuation of adjacent residents. He/she is additionally responsible for ensuring that corrective measures have been implemented, appropriate authorities notified and follow-up reports completed. The SHSO may be called upon to act on the behalf of the site supervisor, and will direct responses to any medical emergency. The individual contractor organizations are responsible for assisting the project manager in his/her mission within the parameters of their scope of work.

The Site Supervisor is: Heather Sonnenberg of JRH.

9.3 Emergency Recognition/Prevention

Table 3.1 provides a listing of chemical and physical hazards on-site. Additional potential hazards associated with site activities are listed in Table 9.1, along with the available emergency prevention/control equipment and its location. Personnel will be familiar with techniques of hazard recognition from preassignment training and site-

specific briefings. The SHSO is responsible for ensuring that prevention devices and equipment are available to personnel.

9.4 Evacuation Routes/Procedures

In the event of an emergency which necessitates an evacuation of the site, the following alarm procedures will be implemented:

- Insure that a predetermined location is identified off-site in case of an emergency, so that all personnel can be accounted for.

- Personnel will be expected to proceed to the closest site exit with their buddy, and mobilize to the safe distance area associated with the evacuation route. Personnel will remain at that area until the re-entry alarm is sounded or an authorized individual provides further instructions.

9.5 Emergency Contact/Notification System

The following list provides names and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the SHSO and notify the appropriate emergency organization(s). In the event of a fire or spill, the site supervisor will notify the appropriate local, state and federal agencies.

TABLE 9.2
List of Emergency Contacts

Organization	Contact	Telephone
Police	NYCPD	911
Fire	NYCFD	911
Hospital	Flushing Hospital Medical Ctr.	718-670-5000
EPA Emergency Response Team		800-424-8802
NYSDEC	Spill Hotline	800-457-7362
National Response Center		800-424-8802
Center for Disease Control		404-488-4100
Chemtrec		800-424-9555

9.6 Emergency Medical Treatment Procedures

Any person who becomes ill or injured in the Exclusion Zone must be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination should be completed and first aid administered prior to transport. If the patient's condition is serious, at least partial decontamination should be completed (i.e., complete disrobing of the victim and redressing in clean coveralls or wrapping in a blanket.) First aid should be administered while awaiting an ambulance or paramedics. All injuries and illnesses must immediately be reported to the Site Supervisor.

Any person being transported to a clinic or hospital for treatment should take with them information on the chemical(s) they have been exposed to at the site. This information is included in Table 3.1.

Any vehicle used to transport contaminated personnel will be treated and cleaned as necessary.

9.7 Fires or Explosion

In the event of a fire or explosion, the local fire department should be summoned immediately. Upon their arrival, the project manager or designated alternate will advise the fire commander of the location, nature, and identification of the hazardous materials on site.

If it is safe to do so, site personnel may:

- Use fire fighting equipment available on site to control or extinguish the fire; and,
- Remove or isolate flammable or other hazardous materials, which may contribute to the fire.

9.8 Spill or Leaks

In the event of a spill or a leak from excavation or drilling equipment, including containers, site personnel will:

- Inform their supervisor immediately;
- Locate the source of the spillage and stop the flow if it can be done safely; and,
- Begin containment and recovery of the spilled materials.

9.9 Emergency Equipment/Facilities

The following emergency equipment/facilities will be utilized on-site.

TABLE 9.3
LIST OF EMERGENCY EQUIPMENT/FACILITIES

List of Emergency Equipment/Facilities	Storage Location
First Aid Kit	Support Zone
Fire Extinguisher	Support Zone
Spill Kits	Support Zone
Berm Materials	Support Zone
Eye Wash	Support Zone
Real Time Air Equipment	Exclusion Zone

10.0 REFERENCES

1. *Aldrich Chemical Book*, RTECS
2. *American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values*
3. *Chemical Protective Clothing Performance Index Book*, Forsburg
4. *Dangerous Properties of Industrial Materials*, SAX and Lewis
5. *Emergency Response Guide Book*, DOT P 5800.5, 1990
6. *EPA 40 CFR 311 Health and Safety Regulations*
7. *EPA/Office of Emergency and Remedial Response/Environmental Response Team Standard Operating Safety Guide*
8. *Extremely Hazardous Substances*, EPA, Noyes
9. *Guide to Occupational Exposure Values* – 1992
10. *Guidelines for the Selection of Chemical Protective Clothing*, Little
11. *Handbook of Toxic and Hazardous Chemicals and Carcinogens*, Sittig, np (Noyes)
12. *Hazardous Chemicals Data Book*, G. Weiss, ndc (Noyes)
13. *Hazardous Chemicals Desk Reference*
14. *NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidelines*
15. *OHMTADS Database*
16. *OSHA 29 CFR 1910.120 Health and Safety Regulations*
17. *The Merck Index, an Encyclopedia of Chemicals, Drugs, and Biologicals*, Merck & Co., Inc.
18. *Threshold Limit Values and Biological Exposure Indices, ACGIH*, 1991-1992
19. *V.S.L.G. Chris Man*

APPENDIX A

EQUIPMENT CLEANING AND DECONTAMINATION PROCEDURES

APPENDIX A

STANDARD OPERATING PROCEDURES

EQUIPMENT CLEANING AND DECONTAMINATION PROCEDURES

Summary

Equipment, tools, materials, etc. used in the excavation/remediation and collection of samples at the site must be properly prepared and cleaned/decontaminated during and after each sampling event. The degree of cleaning/decontamination will be dependent upon site conditions and the nature and type of contamination, if present, the intent and goal(s) of the remediation, and data quality objectives, as well as other site-specific requirements. The importance of this action must be impressed upon the sampling team and those assisting the team, such as a backhoe or drill rig operator.

Procedure

1. Heavy Equipment Decontamination

All equipment, tools and materials associated with sampling events must be cleaned or decontaminated prior to usage. Items such as drill rigs, auger flights, trackhoes, and backhoes all present potential sources of contamination to environmental samples. Therefore, all heavy equipment utilized at a site must undergo the following decontamination procedures:

- the equipment will first be high pressure, hot washed or steam-cleaned with potable water; and,
- the equipment will be rinsed thoroughly with potable water.

Contain, collect and dispose of all decontamination fluids in accordance with site/project- specific requirements. The bucket of trackhoes and backhoes may be cleaned over the excavation allowing high pressure decontamination washwater to return to the excavation.

2. Cleaning of Field Sampling Equipment

All equipment and tools used to collect samples for chemical analyses, including spatulas, spoons, scoops, trowels, split-spoons, augers, etc. will be decontaminated using the following procedures:

- non-phosphate detergent wash;
- potable water or distilled/deionized water rinse; and
- air or oven-dry.

If the equipment, listed above, is to be stored for future use, allow to dry and then wrap in aluminum foil (shiny-side out) or seal in plastic bags. Collect or dispose of all decontamination fluids in accordance with site/project-specific requirements.

3. Personal Clothing Decontamination

All footwear worn in and around a contamination area will be washed down using soap and water to remove any soil or oily residue remnants. If disposable gloves, booties or suits (such as Tyvek® suits) are worn, these suits or booties are to be removed and disposed of in a designated 55-gallon drum on site for future disposal. Any other clothing that comes in contact with contaminated soil should not be worn more than 24-hours and should be washed prior to wearing again.

APPENDIX B

MSDSs

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	**MERCURY**
CHEMICAL NAME/CLASS:	Mercury; Element
SYNONYMS:	Colloidal Mercury, Quick Silver; Liquid Silver; NCI-C60399; Hydrargyrum
PRODUCT USE:	Variety of industrial, analytical, and research applications.
SUPPLIER/MANUFACTURER'S NAME:	**BETHLEHEM APPARATUS COMPANY**
ADDRESS:	890 Front Street Hellertown, PA 18055
EMERGENCY PHONE:	610-838-7034
BUSINESS PHONE:	610-838-7034
DATE OF PREPARATION:	May 20, 1997
DATE OF REVISION:	May 2, 2000

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	%w/w	EXPOSURE LIMITS IN AIR					
			ACGIH-TLV		OSHA-PEL			OTHER
			TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	IDLH mg/m^3	mg/m^3
Mercury Exposure limits are for Mercury, Inorganic Compounds	7439-97-6	100	0.025, (skin) A4 (Not Classifiable as a Human Carcinogen)	NE	Mercury Vapor: 0.5, Skin; (Vacated 1989 PEL)	0.1 (ceiling) Non-alkyl Mercury Compounds: 0.1 Ceiling, skin (Vacated 1989 PEL)	10	NIOSH REL: STEL = 0.1 (ceiling, skin) DFG MAKs: TWA = 0.1 PEAK = 10•MAK 30 min., momentary value Carcinogen: EPA-D; IARC-3, TLV-A4

NE = Not Established. See Section 16 for Definitions of Terms Used.

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Mercury is a silver-white, odorless, heavy liquid. Mercury is highly toxic, irritating, and causes sensitization and neurological symptoms. The primary health hazard associated with overexposure to this product is the potential for irritation of skin, eyes, or other contaminated tissues. Mercury causes severe, adverse health effects after chronic exposure to low vapor levels; emergency response efforts must be directed to removal of all traces of this product. Mercury is not flammable, and is relatively stable (though it can react with many metals to form amalgams). Emergency responders must wear the personal protective equipment suitable for the situation to which they are responding.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of occupational over-exposure are inhalation and contact with skin and eyes. The symptoms of over-exposure to Mercury, via route of exposure, are as follows:

INHALATION: Long-term exposures to Mercury vapors present a severe health hazard. When inhaled, Mercury will be rapidly distributed throughout the body. During this time, Mercury will cross the blood-brain barrier, and become oxidized to the Hg(II) oxidation state. The oxidized species of Mercury cannot cross the blood-brain barrier and thus accumulates in the brain. Mercury in other organs is removed slowly from the body via the kidneys. The average half-time for clearance of Mercury for different parts of the human body is as follows: lung: 1.7 days; head: 21 days; kidney region: 64 days; chest: 43 days; whole body: 58 days.

Long-term inhalation over-exposures can lead to the development of a wide variety of symptoms, including the following: excessive salivation, gingivitis, anorexia, chills, fever, cardiac abnormalities, anemia, digestive problems, abdominal pains, frequent urination, an inability to urinate, diarrhea, peripheral neuropathy (numbness, weakness, or burning sensations in the hands or feet), tremors (especially in the hands, fingers, eyelids, lips, cheeks, tongue, or legs), alteration of tendon reflexes, slurred speech, visual disturbances, and deafness. Allergic reactions (i.e. breathing difficulty) may also occur in sensitive individuals.

The principal target organ associated with chronic Mercury exposures via inhalation is the central nervous system. Such exposures lead to the development of "Erethism". This syndrome consists of subtle or dramatic changes in behavior and personality: depression, fearfulness, restlessness, irritability, timidity, and indecision. These psychic and behavioral characteristics are often accompanied by insomnia, drowsiness, headache, and fatigue. In advanced cases, memory loss, hallucinations, and mental deterioration may occur.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH	(BLUE)	3
FLAMMABILITY	(RED)	0
REACTIVITY	(YELLOW)	0

PROTECTIVE EQUIPMENT | X

EYES	RESPIRATORY	HANDS	BODY
	See Section 8		See Section 8

For a variety of applications involving elemental Mercury.

See Section 16 for Definition of Ratings

Another, less common, syndrome associated with Mercury over-exposure is "Acrodynia". Symptoms of this syndrome include a pink color to the extremities, apathy, fever, kidney problems, sensitivity to light, generalized edema, and a painful scaling of the skin of the hands and feet. Other symptoms of chronic over-exposure to Mercury can include loosening of the teeth, inflammation of the mucous membranes, a dark blue line appearing along gingival margins, abnormal blushing, excessive sweating, and rashes. Reproductive effects, sexual disorders, and impotence may also develop in the event of Mercury over-exposure.

Short-term over-exposures to high concentrations of mercury vapors can lead to breathing difficulty, coughing, acute, chemical pneumonia, and pulmonary edema (a potentially fatal accumulation of fluid in the lungs). Depending on the concentration of over-exposure, cardiac abnormalities, damage to the kidney, liver or nerves and effects on the brain may occur.

If this product is heated, and exposure to Mercury fumes occurs, "Metal Fume Fever" may develop. This syndrome is a flu-like illness which occurs when metal oxides below 1.5 microns in size are inhaled. Symptoms of this syndrome may develop 4-12 hours after exposure and begin with the onset of thirst, metallic taste in the mouth, and symptoms of Mercury poisoning as described above. All symptoms generally subside within 24-36 hours after the over-exposure ends.

CONTACT WITH SKIN or EYES: Mercury can be irritating to contaminated skin and eyes. Symptoms of skin exposure can include redness, dry skin, and pain. Prolonged contact may lead to ulceration of the skin. Allergic reactions (i.e. rashes, welts) may occur in sensitive individuals. Dermatitis (redness and inflammation of the skin) may occur after repeated skin exposures. Symptoms of eye exposure can include redness, pain, and watery eyes. A symptom of Mercury exposure is discoloration of the lens of the eyes.

SKIN ABSORPTION: Skin absorption is a significant route of potential over-exposure to Mercury. Currently, no quantitative estimates of the rate of penetration are available. Symptoms of such over-exposure would include redness and irritation of the contaminated area, as well as the development of symptoms described for "Inhalation".

INGESTION: Ingestion is not anticipated to be a significant route of occupational over-exposure. If Mercury is swallowed, symptoms of such over-exposure can include metallic taste in mouth, nausea, vomiting, central nervous system effects, and damage to the kidneys. Metallic mercury is not usually absorbed sufficiently from the gastrointestinal tract to induce an acute, toxic response. Damage to the tissues of the mouth, throat, esophagus, and other tissues of the digestive system may occur. Ingestion may be fatal, due to effects on gastrointestinal system and kidneys.

INJECTION: Injection is not anticipated to be a significant route of over-exposure for this product. If Mercury is injected (i.e. though abrasions and lacerations of the skin), local redness and pain will occur. Other symptoms of such exposure can include the development of embolisms (Mercury blocking a vein or artery), malaise, chest pain, and difficulty in breathing.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**. The most severe health effects associated with Mercury exposure are related to long-term exposures to vapors. In the event of over-exposure, the following symptoms may be observed:

ACUTE: Mercury can be irritating to contaminated skin and eyes. Short-term over-exposures to high concentrations of mercury vapors can lead to breathing difficulty, coughing, acute, and potentially fatal lung disorders. Depending on the concentration of inhalation over-exposure, heart problems, damage to the kidney, liver or nerves and effects on the brain may occur.

CHRONIC: Long-term over-exposure can lead to a wide range of adverse health effects. Anyone using Mercury must pay attention to personality changes, weight loss, skin or gum discolorations, stomach pains, and other signs of Mercury over-exposure. Gradually developing syndromes ("Erethism" and "Acrodynia") are indicative of potentially severe health problems. Mercury can cause the development of allergic reactions (i.e. dermatitis, rashes, breathing difficulty) upon prolonged or repeated exposures. Refer to Section 11 (Toxicology Information) for additional data.

TARGET ORGANS: ACUTE: Skin, eyes, respiratory system, central nervous system, brain. CHRONIC: Skin, respiratory system, central nervous system, brain, blood system, kidneys, and reproductive system.

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

Contaminated individuals must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of label and MSDS to health professional with victim.

SKIN EXPOSURE: If Mercury contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual must seek immediate medical attention.

EYE EXPOSURE: If Mercury contaminates the eyes, open the victim's eyes while under gently running water. Use sufficient force to open eyelids. Have the contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. The contaminated individual must seek immediate medical attention.

INHALATION: If Mercury vapors are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. The contaminated individual must seek immediate medical attention.

INGESTION: If Mercury is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Have victim rinse mouth with water, or drink several cupfuls of water, if conscious. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting respiratory problems, dermatitis, central nervous system disorders, kidney problems, and liver dysfunctions can be aggravated by exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treatment for Mercury over-exposure must be given. The following treatment protocol for ingestion of Mercury is from Clinical Toxicology of Commercial Products (5th Edition, 1984).

1. As soon as possible, have patient drink milk or slurry of activated charcoal to help precipitate mercury in the stomach.
2. Gastric lavage with tap water, milk, or 2-5% solution of sodium bicarbonate, unless spontaneous vomiting is intense and productive,
3. Administer through the lavage tube 0.5-1.0 oz. of sodium or magnesium sulfate in 6-8 oz. of water (unless spontaneous purging has already begun) and a slurry of activated charcoal.
4. Administer BAL (Dimercaprol; 3 mg/kg or 0.3 mL/10 kg) intramuscularly as a 10% solution in oil. If given within three hours after ingestion, severe renal damage may be prevented. Collect urine before and after BAL therapy for mercury analysis.
5. Demulcents (i.e. milk of magnesia, starch, bismuth subcarbonate) and analgesic drugs may be useful and necessary.

RECOMMENDATIONS TO PHYSICIANS (continued):

6. Because the BAL-Mercury Complex excreted in bile may be partly resorbed in the bowel, it is probably useful to administer activated charcoal every few hours, starting as soon as vomiting subsides.
7. Treat shock by correcting dehydration and electrolyte imbalances. If renal insufficiency develops, treat for acute renal failure.
8. The maintenance of an adequate nutritional status may be troublesome if gastrointestinal disorders becomes severe or persistent.
9. If toxic signs or symptoms recur after an apparent recovery, another course of chelation therapy is warranted. BAL is still appropriate, but a trial with D-Penicillamine or N-acetyl-D,L-penicillamine may be preferable. Either penicillamine compound is given by mouth, usually on an empty stomach, in a dose of 250 mg (4 times daily for adults; 3 times daily in children; 5-10 days). Penicillamine should be withheld until mercury is cleared out of the bowels. A chelating agent should be used until the urine-mercury level falls below 50μg/24 hours.

Laboratory Analysis: Determination of β2-Microglobulins has been recommended as a useful test for renal function. Electroencephalographic changes may be correlated closely with the clinical state. Analysis of the blood, hair, urine, or feces can be done to determine the level of Mercury exposure. Mercury deposits in the body can be observed in X-Rays.

5. FIRE-FIGHTING MEASURES

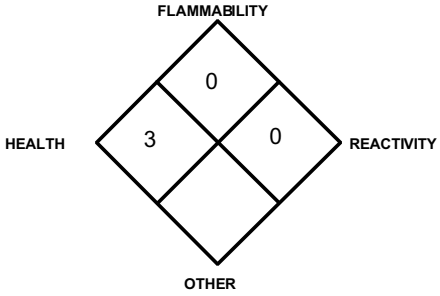
FLASH POINT: Not flammable.
AUTOIGNITION TEMPERATURE: Not applicable.
FLAMMABLE LIMITS (in air by volume, %): Lower (LEL): Not applicable.
Upper (UEL): Not applicable.
FIRE EXTINGUISHING MATERIALS:

Water Spray: YES — Carbon Dioxide: YES
Foam: YES — Dry Chemical: YES
Halon: YES — Other: Any "ABC" Class.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Mercury vapors and mercury oxides generated during fires involving this product are toxic; additionally, this element can be irritating to contaminated tissue. Therefore, this product presents a severe health hazard to firefighters. Mercury is not flammable, and is relatively stable (though it can react with many metals to form amalgams).

Explosion Sensitivity to Mechanical Impact: Not sensitive.
Explosion Sensitivity to Static Discharge: Not sensitive.

NFPA RATING



See Section 16 for Definition of Ratings

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. Apply cooling water to sides of containers that are exposed to flame until well after fire is out. Decontaminate all equipment thoroughly after the conclusion of fire-fighting activities. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a Mercury release, clear the affected area, protect people, and respond with trained personnel. In the event of a release under 1 pound of Mercury, the minimum Personal Protective Equipment should be **Level C: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard-hat, and Air-Purifying Respirator with cartridge appropriate for Mercury. Level B, which includes Self-Contained Breathing Apparatus, must be worn if the amount of Mercury released is over 1 pound or when the concentration of oxygen in atmospheres is less than 19.5% or unknown.** If necessary, dike area of release with suitable absorbent materials. There are a variety of methods which can be used to clean-up Mercury spills. Use a commercially-available Mercury Spill Kit for small spills. A suction pump with aspirator can also be used during clean-up operations. For larger releases, a Mercury vacuum can be used. Calcium polysulfide or excess sulfur can also be used for clean-up. Mercury can migrate into cracks and other difficult-to-clean areas; calcium polysulfide and sulfur can be sprinkled effectively into these areas. Decontaminate the area thoroughly. The area should be inspected visually and with colorimetric tubes for Mercury to ensure all traces of Mercury have been removed prior to re-occupation by non-emergency personnel. Decontaminate all equipment used in response thoroughly. If such equipment cannot be adequately decontaminated, it must be discarded with other spill residue. Place all spill residue in an appropriate container, seal immediately, and label appropriately. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and regulations of Canada and it's Provinces. (see Section 13, Disposal Considerations).

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting Mercury ON YOU or IN YOU. Wash thoroughly after handling this product. Avoid breathing vapors or spays of this product. Do not eat or drink while handling this product. Remove contaminated clothing immediately. Report all Mercury releases promptly. Clean-up all releases of this product immediately. Supervisors and other responsible personnel must be aware of personality changes, weight loss, or other signs of Mercury over-exposure in employees using this product; these symptoms can develop gradually and are indicative of potentially severe health effects related to Mercury contamination.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to handle it safely. Use in a well-ventilated location. Open containers slowly on a stable surface. Drums, flask, and bottles of this product must be properly labeled. Empty containers may contain residual amounts of Mercury; therefore, empty containers should be handled with care. Store drums, flasks, and bottles in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Material should be stored in secondary containers or in a diked area, as appropriate. Keep drums, flasks, and bottles tightly closed when not in use. Storage areas should be made of fire-resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Decontaminate equipment thoroughly before maintenance begins.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients), if applicable. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below exposure limits listed in Section 2 (Composition and Information on Ingredients), if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent U.S. State standards, and Canadian CSA Standard Z94.4-93. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).The following respirator selection guidelines from NIOSH are provided for additional information:

RECOMMENDATIONS FOR MERCURY COMPOUNDS [except (organo) alkyls] (as Hg) CONCENTRATIONS IN AIR:

Up to 0.5 mg/m^3: Chemical cartridge respirator with cartridge(s) to protect against mercury compounds (an End-of-Service Life Indicator is required); or Supplied-Air Respirator (SAR).

Up to 1.25 mg/m^3: SAR operated in a continuous-flow mode; or powered air- purifying respirator with cartridge(s) to protect against mercury compounds (canister) (an End-of-Service Life Indicator is required.)

Up to 2.5 mg/m^3: Full-facepiece chemical cartridge respirator with cartridge(s) to protect against mercury compounds; or gas mask with canister to protect against mercury compounds; or SAR with a tight-fitting facepiece operated in a continuous-flow mode; or powered air-purifying respirator with a tight-fitting facepiece and cartridge(s) to protect against mercury compounds (canister) (an End-of-Service Life Indicator is required); or full-facepiece Self-Contained Breathing Apparatus (SCBA); or full-facepiece SAR.

Up to 10 mg/m^3: Positive pressure SAR.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Escape: Gas mask with canister to protect against mercury compounds; or escape-type SCBA.

EYE PROTECTION: Splash goggles or safety glasses. For operations involving the use of more than 1 pound of Mercury, or if the operation may generate a spray of Mercury, the use of a faceshield is recommended.

HAND PROTECTION: Wear neoprene gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS.

BODY PROTECTION: Use body protection appropriate for task (i.e. lab coat, coveralls, Tyvek suit).

9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): 6.9

EVAPORATION RATE (n-BuAc = 1): Not determined.

SPECIFIC GRAVITY (water = 1): 13.5939

MELTING/FREEZING POINT: -38.87°C (-37.97°F)

SOLUBILITY IN WATER: Insoluble.

BOILING POINT: 356.72°C (674.1°F)

VAPOR PRESSURE, mm Hg @ 25°C: 0.002

pH: Not applicable.

ODOR THRESHOLD: Not applicable.

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not available.

APPEARANCE, ODOR AND COLOR: Mercury is a silver-white, heavy liquid which is odorless.

HOW TO DETECT THIS SUBSTANCE (warning properties): The appearance of this product is a distinguishing characteristic.

10. STABILITY and REACTIVITY

STABILITY: Stable

DECOMPOSITION PRODUCTS: If this product is exposed to extremely high temperatures in the presence of oxygen or air, toxic vapors of mercury and mercury oxides will be generated.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Mercury is incompatible with acetylene and acetylene derivatives, amines, ammonia, 3-bromopropyne, boron diiodophosphide, methyl azide, sodium carbide, heated sulfuric acid, methylsilane/oxygen mixtures; nitric acid/alcohol mixtures, tetracarbonylnickel/oxygen mixtures, alkyne/silver perchlorate mixtures, halogens (i.e. chlorine, bromine) and strong oxidizers (i.e. chlorine dioxide, perchlorates). Mercury can attack copper and copper alloys. Additionally, mercury can react with many metals (i.e. calcium, lithium, potassium, sodium, rubidium, aluminum) to form amalgams.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid exposure or contact to extreme temperatures, incompatible chemicals

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The specific toxicology data available for Mercury are as follows.

TDLo (Subcutaneous-Man) 254 mg/kg: Skin and Appendages: dermatitis, other (after systemic exposure)

TDLo (Oral-Man) 43 mg/kg: Behavioral: tremor; Liver: jaundice, other or unclassified, other changes

TDLo (Skin-Man) 129 mg/kg/5 hours-continuous: Sense Organs and Special Senses (Ear): tinnitus; Behavioral: headache; Skin and Appendages: dermatitis, allergic (after systemic exposure)

TDLo (Intravenous-Man) 571 µL/kg: Peripheral Nerve and Sensation: paresthesis; Lungs, Thorax, or Respiration: dyspnea; Skin and Appendages: sweating

TDLo (Intraperitoneal-Rat) 400 mg/kg/14 days-intermittent: Tumorigenic: equivocal tumorigenic agent by RTECS criteria, tumors at site of application

TCLo (Inhalation-Woman) 150 µg/m^3/46 days: Behavioral: wakefulness, anorexia (human); Gastrointestinal: hypermotility, diarrhea

TCLo (Inhalation-Man) 44300 µg/m^3/8 hours: Behavioral: muscle weakness; Liver: other changes; Nutritional and Gross Metabolic: body temperature increase

TCLo (Inhalation-Rat) 4 mg/m^3/2 hours/11 days-intermittent: Brain and Coverings: other degenerative changes; Kidney, Ureter, Bladder: other changes; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: other Enzymes

TCLo (Inhalation-Rat) 1 mg/m^3/24 hours/5 weeks-continuous: Kidney, Ureter, Bladder: proteinuria

TCLo (Inhalation-Rat) 8 µg/m^3/6.5 hours/41 weeks-intermittent: Behavioral: alteration of classical conditioning

TCLo (Inhalation-Rat) 17 mg/m^3/2 hours/30 days-continuous: Brain and Coverings: other degenerative changes; Behavioral: alteration of classical conditioning, alteration of operant conditioning

TCLo (Inhalation-Rat) 890 ng/m^3/24 hours: male 16 week(s) pre-mating: Reproductive: Paternal Effects: spermatogenesis (incl. genetic material, sperm morphology, motility, and count)

TCLo (Inhalation-Rat) 7440 ng/m^3/24 hours: male 16 week(s) pre-mating: Reproductive: Fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)

TCLo (Inhalation-Rat) 1 mg/m^3/24 hours: female 1-20 day(s) after conception: Reproductive: Effects on Embryo or Fetus: fetotoxicity (except death, e.g., stunted fetus)

TCLo (Inhalation-Rat) 300 µg/m^3/4 hours: female 7-21 day(s) after conception: Reproductive: Specific Developmental Abnormalities: Central Nervous System

LCLo (Inhalation-Rabbit) 29 mg/m^3/30 hours

Cytogenetic Analysis (Unreported-Man) 150 µg/m^3

SUSPECTED CANCER AGENT: Mercury is listed as follows by agencies tracking carcinogenic potential:

ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans, but which cannot be assessed conclusively because of a lack of data); EPA- D (Not Classifiable as to Human Carcinogenicity-Inadequate human and animal evidence of carcinogenicity or no data are available); IARC-3 (Possibly Carcinogenic to Humans)

Mercury is not found on the following lists: FEDERAL OSHA Z LIST, NTP, or CAL/OSHA and therefore is not considered to be, nor suspected to be, a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Mercury can be irritating to skin, eyes, or other contaminated tissue.

SENSITIZATION TO THE PRODUCT: Mercury is a sensitizer capable of causing allergic reactions (i.e. breathing difficulty, dermatitis, rashes) after prolonged or repeated over-exposures.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Mercury on the human reproductive system.

Mutagenicity: Human mutation data are available for Mercury; these data were obtained during clinical studies on specific human tissues exposed to high doses of this element.

Embryotoxicity: This product may cause embryotoxic effects in humans. Refer to the paragraph on "Teratogenicity" for additional information.

Teratogenicity: This product may cause teratogenic effects in humans. Intrauterine exposure may result in tremors and involuntary movements in the fetus. Mercury has also been reported to produce teratogenic effects in test animals.

Reproductive Toxicity: This product is reported to cause reproductive effects in humans. Impotence has been reported in over-exposed males. Women occupationally exposed have reported menstrual disturbances, reduced ovulation, and spontaneous abortions. Mercury is excreted in breast milk. Mercury has also been reported to produce adverse reproductive effects in test animals.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES: The following Biological Exposure Indices (BEIs) have been determined for Mercury.

CHEMICAL DETERMINANT	SAMPLING TIME	BEI
MERCURY • Total inorganic mercury in urine • Total inorganic mercury in blood	 • Preshift • End of shift at end of workweek	 • 35 μg/g creatinine • 15 μg/L

Note: Women of child-bearing potential, whose blood Pb exceeds 10 μg/dl, are at risk of delivering a child with a blood Pb over the current Center for Disease Control Quideline of 10 μg/dl. If the blood Pb of such children remains elevated, they may be at increased risk of cognitive deficits. The blood Pb of these children should be closely monitored and appropriate steps should be taken to minimize the child's exposure to environmental lead.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: Mercury is stable, and persists for long periods in ambient environmental conditions. The following environmental data are available for this element:

The biological half-life of mercury in fish is approximately 2 to 3 years. Mercury bioaccumulates and concentrates in the food chain. Concentration may be as much as 10,000 times that of water. Mercury is concentrated by animals, plants and fishes. Chinook salmon fed contaminated fingerlings concentrated Mercury in the liver and kidneys. Methyl mercury is formed naturally in aquatic and terrestrial environments from elemental mercury. Methylation is likely to occur in upper sedimentary layers of sea or lake bottoms.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Mercury can be harmful or fatal to contaminated plant or animal life.

EFFECT OF CHEMICAL ON AQUATIC LIFE: Mercury can be harmful or fatal to contaminated aquatic plant or animal life in contaminated bodies of water. The following aquatic toxicity data are available for Mercury:

MERCURY:

LC_{50} (Catfish) = 0.35 mg/L/ 96 hours (conditions of bioassay not specified)
LC_{50} (*Modiolus carvalhoi*) (mollusk) = 0.5 ppm / 48 hours; 0.19 ppm - 96 hours (conditions of bioassay not specified)
LC_{50} (*Rana hexadactyla*) (tadpoles) = 0.051 ppm / 96 hours (conditions of bioassay not specified)

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, should be recycled. If altered by use, recycling may be possible. Consult Bethlehem Apparatus Company for information. If Mercury must be disposed of as hazardous waste, it must be handled at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA WASTE NUMBER: Depending on the nature of the waste, one of the following RCRA codes will be applicable: U151 (Toxic Commercial Chemical Products/Mercury); D009 (Characteristic; Toxicity Characteristic Leaching Procedure; Regulated Level: 0.2 mg/L).

14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Mercury
HAZARD CLASS NUMBER and DESCRIPTION: 8 (Corrosive Material)
UN IDENTIFICATION NUMBER: UN 2809
PACKING GROUP: PG III
DOT LABEL(S) REQUIRED: Corrosive

NOTE: For transport by aircraft, Mercury must be packaged in packagings which meet the requirements of Packing Group I Performance Level. For transportation by other modes, Mercury must be packaged in packagings which meet the requirements of Packing Group III Performance Level or in non-specification reusable metal packagings. Refer to 49 CFR 173.164 for specific packaging requirements.

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER, 2000: 172

MARINE POLLUTANT: Mercury is not listed as a Marine Pollutant, per Appendix B to 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This material is considered as dangerous goods, per regulations of Transport Canada. Use the above U.S. DOT information for the preparation of Canadian Shipments.

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: Mercury is subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

CHEMICAL NAME	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
Mercury	No	YES	YES

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for Mercury. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. TSCA INVENTORY STATUS: Mercury is listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Mercury = 1 lb (0.454 kg)

OTHER U.S. FEDERAL REGULATIONS: Mercury is regulated as follows (other regulations may be applicable):

EPA: Mercury is listed as a Hazardous Air Pollutant (HAP) generally known or suspected to cause serious health problems. The Clean Air Act, as amended in 1990, directs EPA to set standards requiring major sources to sharply reduce routine emissions of toxic pollutants. EPA is required to establish and phase in specific performance based standards for all air emission sources that emit one or more of the listed pollutants. Mercury is included on this list.

FDA: The action level of 1.0 ppm total mercury in fish has been revised on September 12, 1984 by FDA to apply only to methyl mercury.

FIFRA: All uses of mercury are cancelled except the following: 1) as a fungicide in the treatment of textiles and fabrics intended for continuous outdoor use; 2) as a fungicide to control brown mold on freshly sawn lumber; 3) as a fungicide treatment to control Dutch elm disease; 4) as an in-can preservative in water based paints and coatings; 5) as a fungicide in water-based paints and coatings used for exterior application; 6) as a fungicide to control "winter turf diseases" such as Sclerotinia borealis, and gray and pink snow mold subject to the following: a. the use of these products shall be prohibited within 25 feet of any water body where fish are taken for human consumption. b. these products can be applied only by or under the direct supervision of golf course superintendents. These types of Mercury-containing products will be classified as restricted use pesticides when they are reregistered and classified in accordance with Section 4(C) of FEPCA.

U.S. STATE REGULATORY INFORMATION: Mercury is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Mercury.
California - Permissible Exposure Limits for Chemical Contaminants: Mercury.
Florida - Substance List: Mercury.
Illinois - Toxic Substance List: Mercury.
Kansas - Section 302/313 List: Mercury.
Massachusetts - Substance List: Mercury.
Michigan – Critical Materials Register: Mercury.
Minnesota - List of Hazardous Substances: Mercury.
Missouri - Employer Information/Toxic Substance List: Mercury.
New Jersey - Right to Know Hazardous Substance List: Mercury.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: Mercury.
Pennsylvania - Hazardous Substance List: Mercury.
Rhode Island - Hazardous Substance List: Mercury.
Texas - Hazardous Substance List: Mercury.
West Virginia - Hazardous Substance List: Mercury.
Wisconsin - Toxic and Hazardous Substances: Mercury.

15. REGULATORY INFORMATION (Continued)

ADDITIONAL U.S. REGULATIONS (continued):

CALIFORNIA PROPOSITION 65: Mercury is on the California Proposition 65 lists. WARNING: Contains a chemical known to the State of California to cause birth defects or other reproductive harm.

LABELING (Precautionary Statements) ANSI LABELING (Z129.1):: **DANGER!** HIGHLY TOXIC AFTER LONG-TERM EXPOSURE. DANGER OF CUMULATIVE EFFECTS. MAY CAUSE DAMAGE TO THE NERVOUS SYSTEM, BLOOD SYSTEM, KIDNEYS, LIVER. REPRODUCTIVE HAZARD. HARMFUL OR FATAL IF INHALED OR SWALLOWED. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. CAUSES SKIN AND EYE IRRITATION Do not get on skin, in eyes, or on clothing. Avoid prolonged contact with the skin. Avoid breathing vapors and fumes. Do not take internally. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Wear gloves, goggles, face-shield, body protection, and NIOSH-approved respiratory protection, as appropriate. FIRST-AID: In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If ingested, induce vomiting. Get medical attention immediately. IN CASE OF FIRE: Use water fog, dry chemical, CO_2, or "alcohol" foam. IN CASE OF SPILL: Vacuum released material, or use a Mercury Spill Kit. Containerize residue immediately, and label appropriately. Consult Material Safety Data Sheet for additional information.

ADDITIONAL CANADIAN REGULATIONS:

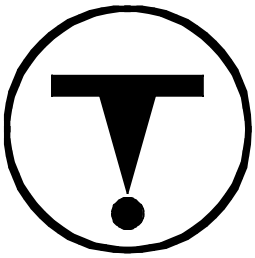
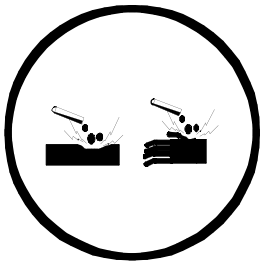
CANADIAN DSL/NDSL INVENTORY STATUS: Mercury is listed on the DSL Inventory.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: Mercury is not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS SYMBOLS:

D1B: Materials Causing Immediate and Serious Toxic Effects/Toxic Material
D2A: Materials Causing Other Toxic Effects/Very Toxic Material
D2B: Materials Causing Other Toxic Effects/Toxic Material
E: Corrosive Material

16. OTHER INFORMATION

PREPARED BY: CHEMICAL SAFETY ASSOCIATES, Inc.
9163 Chesapeake Drive, San Diego, CA 92123-1002
(858) 565 - 0302

DATE OF PRINTING: May 1, 2000

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Bethlehem Apparatus Company responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Bethlehem Apparatus Company for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

CAS #: This is the Chemical Abstract Service Number which uniquely identifies each constituent.

EXPOSURE LIMITS IN AIR:

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits. **TLV -** Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average **(TWA)**, the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level **(C)**. Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order. **IDLH -** Immediately Dangerous to Life and Health **-** This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**REL**s). When no exposure guidelines are established, an entry of **NE** is made for reference.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can result in permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: **0** (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure causes death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, and **LDo**, or **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **Cancer Information:** The sources are: **IARC** - the International Agency for Research on Cancer; **NTP** - the National Toxicology Program, **RTECS** - the Registry of Toxic Effects of Chemical Substances, **OSHA** and **CAL/OSHA**. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. **Other Information: BEI** - ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. **Ecological Information:** EC is the effect concentration in water. **BCF** = Bioconcentration Factor, which is used to determine if a substance will concentrate in lifeforms which consume contaminated plant or animal matter. Coefficient of Oil/Water Distribution is represented by **log K_{ow}** or **log K_{oc}** and is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **U.S.: EPA** is the U.S. Environmental Protection Agency. **DOT** is the U.S. Department of Transportation. **SARA** is the Superfund Amendments and Reauthorization Act. **TSCA** is the U.S. Toxic Substance Control Act. **CERCLA (or Superfund)** refers to the Comprehensive Environmental Response, Compensation, and Liability Act. Labeling is per the American National Standards Institute (**ANSI Z129.1**). **CANADA: CEPA** is the Canadian Environmental Protection Act. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **TC** is Transport Canada. **DSL/NDSL** are the Canadian Domestic/Non-Domestic Substances Lists. **The CPR is the Canadian Product Regulations.** This section also includes information on the precautionary warnings which appear on the materials package label.

Material Safety Data Sheet

1. Product and Company Identification

Product name : **Benzene**

Chemical formula : C6-H6

Synonyms : Benzol, Cyclohexatriene, Benzole, Phene, Pyrobenzol, Pyrobenzole, Carbon Oil, Coal Tar Naphtha, Phenyl Hydride, Benzolene, Bicarburet of Hydrogen, Coal Naphtha, Motor Benzol, Annulene, (6) Annulene, UN 1114

Company : Specialty Gases of America, Inc
6055 Brent Dr.
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Benzene	71-43-2	99+%
Thiophene	110-02-1	0.00010

3. Hazards Identification

Emergency Overview

Flammable liquid and vapor. Vapor may cause flash fire.
May cause respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, cancer hazard (in humans).

Potential Health Effects

Inhalation : Irritation, ringing in the ears, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, symptoms of drunkenness, disorientation, blurred vision, lung congestion, blood disorders, paralysis, convulsion, coma. May cause hearing loss, visual disturbances, reproductive effects, brain damage, cancer in long term exposure.

Eye contact : Irritation.

Skin contact : Irritation, blisters. May cause tingling sensation in long term exposure.

Ingestion : Nausea, vomiting, chest pain, headache, drowsiness, symptoms of drunkenness, disorientation, visual disturbances, lung congestion, paralysis, convulsion, coma. May cause impotence, cancer in long term exposure.

Chronic Health Hazard : Not applicable.

4. First Aid Measures

General advice : None.

Eye contact : Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Skin contact	:	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.
Ingestion	:	Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.
Inhalation	:	If adverse effects occur, remove to contaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

5. Fire-Fighting Measures

Suitable extinguishing media	:	Regular dry chemical carbon dioxide water regular foam. Large fires: Use regular foam or flood with fine water spray.
Specific hazards	:	Severe fire hazard. Moderate explosion hazard. Vapor/air mixtures are explosive. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.
Fire fighting	:	Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles well after fire is out. If this is impossible, take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Water may be ineffective.

6. Accidental Release Measures

Air release	:	Reduce vapors with water spray. Stay upwind and keep out of low areas.
Soil release	:	Dig holding area such as lagoon, pond or pit for containment. Dike for later disposal. Absorb with sand or other non-combustible material.
Water release	:	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers. Cover with absorbent sheets, spill-control pads or pillows. Apply detergents, soaps, alcohols or another surface active agent. Collect with absorbent into suitable container. Absorb with activated carbon. Remove trapped material with suction hoses. Collect spilled material using mechanical equipment.
Occupational release	:	Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Committee for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800) 424-8802 (USA) or (202) 426-2675 (USA).

7. Handling and Storage

Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

Storage

Store in accordance with all current regulations and standards. Subject to storage regulation: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Protect from physical damage. Store outside or in a detached building. Store with flammable liquids. Keep separated from incompatible substances.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH	:	0.5 ppm TWA 2.5 ppm STEL Skin – potential significant contribution to overall exposure by the cutaneous route
OSHA (final)	:	5 ppm STEL (see 29 CFR 1910.1028) 10 ppm TWA applies to industry segments except from the benzene standard at 29 CFR 1910.1028; 1 ppm TWA 25 ppm Ceiling
OSHA (vacated)	:	50 ppm STEL unless specified in 1910.1028 10 minute 10 ppm TWA unless specified in 1910.1028 25 ppm Ceiling unless specified in 1910.1028
NIOSH	:	1 ppm STEL 0.1 ppm TWA

Ventilation

Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Personal protective equipment

Respiratory protection	:	The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. OSHA Standard: Respirator selection should comply with 29 CFR 1910.134, 29 CFR 1910.1028 and the final rule published in the Federal Register on August 24, 2006. NIOSH Recommendations: At any detectable concentration – Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with full facepiece and operated in pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in positive-demand or other positive-pressure mode. Escape – Any air-purifying respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any escape-type, self-contained breathing apparatus.
Hand protection	:	Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES: U.S. OSHA 29 CFR 1910.1028.
Eye protection	:	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin and body protection	:	Wear appropriate chemical resistant clothing.

9. Physical and Chemical Properties

Form	:	Liquid.
Color	:	Colorless to yellow.

Odor	:	Distinct odor.
Molecular weight	:	78.11
Vapor pressure	:	75 mmHg @ 20°C
Vapor density	:	2.8 (air = 1)
Specific gravity	:	0.8765 @ 20°C (water = 1)
Boiling point	:	176°F (80°C)
Melting point	:	43°F (6°C)
Water solubility	:	0.18% @ 25°C
Solvent solubility	:	Soluble: acetone, alcohol, carbon disulfide, acetic acid, carbon tetrachloride, chloroform, ether, oils.
Evaporation rate	:	5.1 (butyl acetate = 1)

10. Stability and Reactivity

Stability	:	Stable under normal conditions.
Conditions to avoid	:	Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.
Materials to avoid	:	Acids, bases, halogens, oxidizing materials, metal salts.
Hazardous decomposition products	:	Thermal decomposition products: oxides of carbon.

11. Toxicological Information

The components of this material have been reviewed in various sources and the following selected endpoints are published:

BENZENE (71-43-2)	:	Inhalation LC50 Rat: 13050-14380 ppm/4H; Oral LD50 Rat: 1800 mg/kg
THIOPHENE (110-02-1)	:	Oral LD50 Rat: 1400 mg/kg

Acute Toxicity Level

BENZENE (71-43-2)	:	Highly toxic: dermal absorption. Moderately toxic: ingestion. Slightly toxic: inhalation.
THIOPHENE (110-02-1)	:	Toxic: inhalation. Moderately toxic: ingestion.

Component Carcinogenicity

BENZENE (71-43-2)	:	ACGIH: A1 – Confirmed Human Carcinogen IARC: Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans)) DFG: Category 1 (causes cancer in man) Present Known Human Carcinogen

Local Effects

BENZENE (71-43-2)	:	Irritant: inhalation, skin, eye.

Target Organs

BENZENE (71-43-2)	:	Immune system (blood), central nervous system.
THIOPHENE (110-02-1)	:	Central nervous system.

Medical Conditions Aggravated by Exposure

Blood system disorders, immune system disorders or allergies.

Additional Data

May cross the placenta. Alcohol may enhance the toxic effects. Interactions with drugs may occur.

12. Ecological Information

Ecotoxicity Data

BENZENE (71-43-2) : Fish:
96 Hr LC50 Pimephales promelas: 10.7 – 14.7 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 5.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 22.49 mg/L [static]; 96 Hr LC50 Poecilia reticulate: 28.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 22330 – 41160 µg/L [static]; 96 Hr LC50 Lepomis macrochirus: 70000 – 142000 µg/L [static]

Algae:
72 Hr EC50 Pseudokirchneriella subcapitata: 29 mg/L

Invertebrate:
48 Hr EC50 Daphnia magna: 8.76 – 15.6 mg/L [static]; 48 Hr EC50 Daphnia magna: 10 mg/L

13. Disposal Considerations

Waste from residues / unused products	:	Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U019. Hazardous Waste Number(s): D018. Dispose of in accordance with U.S. EPA 40 CFR 262 for concentrations at or above the Regulatory level. Regulatory level – 0.5 mg/L. Dispose in accordance with all applicable regulations.
Contaminated packaging	:	Return cylinder to supplier.

Component Waste Numbers

BENZENE (71-43-2) : RCRA: waste_number U019 (Ignitable waste; Toxic waste)
0.5 mg/L regulatory level

14. Transport Information

DOT (US only)

Proper shipping name	:	Benzene
Class	:	3, Packing Group II
UN/ID No.	:	UN1114
Labeling	:	Flammable Liquid

Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

15. Regulatory Information

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

BENZENE (71-43-2) – 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 1989 final rule)

BENZENE (71-43-2) – SARA 313: 0.1% de minimis concentration
CERCLA: 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 1989 final rule)

SARA 311/312
Acute: Yes
Chronic: Yes
Fire: Yes
Reactive: No
Pressure: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
BENZENE	71-43-2	Yes	Yes	Yes	Yes	Yes	Yes
THIOPHENE	110-02-1	No	Yes	No	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enhancement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer.

16. Other Information

Prepared by : Specialty Gases of America, Inc.
For additional information, please visit our website at www.americangasgroup.com.

Material Safety Data Sheet
Toluene

MSDS Number: M1003
Effective Date: 9/07/2004

Section 1 - Chemical Product and Company Identification

MSDS Name: Toluene
Synonyms: Methacide; Methylbenzene; Methylbenzol; Phenylmethane; Toluol
Company Identification:
VEE GEE Scientific, Inc.
13600 NE 126th Pl Ste A
Kirkland, WA 98034
For information in North America, call: 425-823-4518

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
108-88-3	Toluene	>99	203-625-9

Hazard Symbols: XN F
Risk Phrases: 11 20

Section 3 - Hazards Identification

Emergency Overview
Appearance: Colorless. Flash Point: 40°F. **Warning!** Flammable liquid and vapor. May cause central nervous system depression. May cause liver and kidney damage. This substance has caused adverse reproductive and fetal effects in animals. Causes digestive and respiratory tract irritation. May cause skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. **Danger!** Harmful or fatal if swallowed. Causes eye irritation and possible transient injury. **Poison!** May be absorbed through intact skin. Vapor harmful. Call physician immmediately.
Target Organs: Kidneys, central nervous system, liver.
Potential Health Effects
Eye Contact: Causes eye irritation. May result in corneal injury. Vapors may cause eye irritation.
Skin Contact: Causes moderate skin irritation. May cause cyanosis of the extremities.
Ingestion: Aspiration hazard. May cause irritation of the digestive tract. May cause effects similar to those for inhalation exposure. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.
Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Inhalation of vapor may cause respiratory tract irritation. May cause liver and kidney damage. Vapors may cause dizziness or suffocation. Overexposure may cause dizziness, tremors, restlessness, rapid heart beat, increased blood pressure, hallucinations, acidosis, kidney failure.
Chronic Exposure: Prolonged or repeated skin contact may cause dermatitis. May cause cardiac sensitization and severe heart abnormalities. May cause liver and kidney damage.

Section 4 - First Aid Measures

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin Contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Possible aspiration hazard. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician: Causes cardiac sensitization to endogenous catelcholamines which may lead to cardiac arrhythmias. Do NOT use adrenergic agents such as epinephrine or pseudoepinephrine.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.
Fire Extinguishing Media: Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. For small fires, use dry chemical, carbon dioxide, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out. For large fires, use water spray, fog or regular foam.

Section 5 - Fire Fighting Measures

Autoignition Temperature: 422°C (792°F)
Flash Point: 7°C (45°F)
Explosion Limits, lower: 1.2 vol%.
Explosion Limits, upper: 7.1 vol%
NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	OSHA - Vacated Pels
Toluene	50 ppm TWA	100 ppm TWA 375 mg/m3 TWA 500 ppm IDLH	200 ppm TWA C 300 ppm	100 ppm TWA 375 mg/m3 TWA 150 ppm STEL 560 mg/m3 STEL

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Appearance: Colorless
Odor: Sweet, pleasant
pH: Not available
Vapor Pressure: 36.7 mm Hg @ 30° C
Vapor Density: 3.1
Evaporation Rate: 2.4
Viscosity: 0.59 cP @ 20° C
Boiling Point: 232° F
Freezing/Melting Point: -139° F
Decomposition Temperature: Not available
Solubility: Insoluble
Specific Gravity/Density: 0.9
Molecular Formula: C6H5CH3
Molecular Weight: 92.056

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials: Ntrogen tetroxide, nitric acid plus sulfuric acid, silver perchlorate, strong oxidizers, sodium difluoride.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxilogical Information

Carcinogenicity:
CAS# 108-88-3:
ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Group 3 carcinogen

Section 11 - Toxilogical Information (continued)

Epidemiology: No information available.
Teratogenicity: Specific developmental abnormalities included craniofacial effects involving the nose and tongue, musculoskeletal effects, urogenital and metabolic effects in studies on mice and rats by the inhalation and oral routes of exposure. Some evidence of fetotoxicity with reduced fetal weight and retarded skeletal development has been reported in mice and rats.
Reproductive Effects: Effects on fertility such as abortion were reported in rabbits by inhalation. Paternal effects were noted in rats by inhalation. These effects involved the testes, sperm duct and epididymis.
Neurotoxicity: No information available.
Mutagenicity: No information available.

Section 12 - Ecological Information

Ecotoxicity: No data available. Bluegill LC50=17 mg/L/24H Shrimp LC50=4.3 ppm/96H Fathead minnow LC50=36.2 mg/L/96HSunfish (fresh water) TLm=1180 mg/L/96H
Environmental: From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades.
Physical: Photochemically produced hydroxyl radicals degrade substance.
Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: CAS# 108-88-3: waste number U220.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name	Toluene	Toluene
Hazard Class	3	3 (9.2)
UN Number	UN1294	UN1294
Packing Group	II	II
Other		FP 4C

Section 15 - Regulatory Information

US Federal

TSCA: CAS# 108-88-3 is listed on the TSCA inventory.
Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.
CAS# 108-88-3: Effective Date: October 4, 1982; Sunset Date: October 4 , 1992
Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.
Section 12b: None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
SARA:
Section 302 (RQ): CAS# 108-88-3: final RQ = 1000 pounds (454 kg)
Section 302 (TPQ): None of the chemicals in this product have a TPQ.
SARA Codes: CAS # 108-88-3: acute, flammable.
Section 313: This material contains Toluene (CAS# 108-88-3, 99%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
Clean Air Act: CAS# 108-88-3 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act: CAS# 108-88-3 is listed as a Hazardous Substance under the CWA. CAS# 108-88-3 is listed as a Priority Pollutant under the Clean Water Act. CAS# 108-88-3 is listed as a Toxic Pollutant under the Clean Water Act.
OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.
STATE: CAS# 108-88-3 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
WARNING: This product contains Toluene, a chemical known to the state of California to cause birth defects or other reproductive harm. California No Significant Risk Level: CAS# 108-88-3: NOEL = 7000 ug/day

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: XN F
Risk Phrases:
R 11 Highly flammable.
R 20 Harmful by inhalation

Section 15 - Regulatory Information (continued)

Safety Phrases:
S 16 Keep away from sources of ignition - No smoking.
S 25 Avoid contact with eyes.
S 29 Do not empty into drains.
S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection): CAS# 108-88-3: 2
Canada - DSL/NDSL: CAS# 108-88-3 is listed on Canada's DSL List.
Canada - WHMIS: This product has a WHMIS classification of B2, D2B.
Canadian Ingredient Disclosure List: CAS# 108-88-3 is listed on Canada's Ingredient Disclosure List.
Exposure Limits: CAS# 108-88-3: OEL-AUSTRALIA:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3) OEL-BELGIUM:TWA 100 ppm (377 g/m3);STEL 150 ppm (565 mg/m3) OEL-CZECHOSLOVAKIA:TWA 200 mg/m3;STEL 1000 mg/m3 OEL-DENMARK:TWA 50 ppm (190 mg/m3);Skin OEL-FINLAND:TWA 100 ppm (375 mg/m3);STEL 150 ppm;Skin OEL-FRANCE:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3) OEL-GERMANY:TWA 100 ppm (380 mg/m3) OEL-HUNGARY:TWA 100 mg/m3;STEL 300 mg/m3;Skin OEL-JAPAN:TWA 100 ppm (380 mg/m3) OEL-THE NETHERLANDS:TWA 100 ppm (375 mg/m3);Skin OEL-THE PHILIPPINES:TWA 100 ppm (375 mg/m3) OEL-POLAND:TWA 100 mg/m3 OEL-USSIA:TWA 100 ppm;STEL 50 mg/m3 OEL-SWEDEN:TWA 50 ppm (200 mg/m3);STEL 100 ppm (400 mg/m3);Skin OEL-SWITZERLAND:TWA 100 ppm (380 mg/m3);STEL 500 ppm OEL-THAILAND:TWA 200 ppm;STEL 300 ppm OEL-TURKEY:TWA 200 ppm (750 mg/m3) OEL-UNITED KINGDOM :TWA 100 ppm (375 mg/m3);STEL 150 ppm;Skin OEL IN BULGARIA, COLOMBIA,JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 09/07/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall VEE GEE Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if VEE GEE Scientific has been advised of the possibility of such damages.

MATERIAL SAFETY DATA SHEET

Xylenes (Xylol)

SECTION 1 . Product and Company Idenfication

Product Name and Synonym: Xylenes (Xylol)

Product Code: 280-20

Material Uses:

Manufacturer: OFI Testing Equipment Inc.
1006 W. 34th Street
Houston, TX 77018
(877) 880-9885

Entry Date : 5/12/2010

Print Date: 9/13/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	2
Flammability:	3
Reactivity:	0

Hazard Rating:

Least	Slight	Moderate	High	Extreme
0	1	2	3	4

NA = Not Applicable NE = Not Established

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Danger! Harmful Or Fatal If Swallowed. Vapor Harmful. Affects Central Nervous System. Causes
Severe Eye Irritation. Causes Irritation To Skin And Respiratory Tract. Chronic Exposure Can Cause Adverse Liver, Kidney, And Blood Effects. Flammable Liquid And Vapor.

Inhalation: Inhalation of Vapors May be Irritating To The Nose And Throat. Inhalation Of High Concentrations May Result In Nausea, Vomiting, Headache, Ringing In The Ears, And Severe Breathing Difficulties Which May Be Delayed In Onset. Substernal Pain, Cough, And Hoarseness Are Also Reported. High Vapor Concentrations Are Anesthetic And Central Nervous System Depressants.

Ingestion: Ingestion Causes Burning Sensation in Mouth and Stomach, Nausea, Vomiting and Salvation.
Minute Amounts Aspirated into the Lungs can Produce a Severe Hemorrhagic Pneumonitis with Severe Pulmonary Injury or Death.

Skin: Skin Contact Results in Loss of Natural Oils and Often Results in Characteristic Dermatitis. May be Absorbed Through the Skin.

Eye Contact: Vapors Cause Eye Irritation. Splashes Cause Severe Irritation, Possible Corneal Burns and Eye
Damage.

Chronic Exposure: Chronic Inhalation Can Cause Headache, Loss of Appetite, Nervousness and Pale Skin.
Repeated or Prolonged Skin Contact may Cause a Skin Rash. Repeated Exposure of the Eyes to High Concentrations of Vapor may Cause Reversible Eye Damage. Repeated Exposure can Damage Bone Marrow, Causing Low Blood Cell Count. May Damage Liver and Kidneys.

Aggravated by Exposure: Persons with Pre-Existing Skin Disorders or Eye Problems or Impaired Respiratory Function, or
Impaired Liver or Kidney Function may be more Susceptible to the Effects of the Substance.

SECTION 3 MIXTURE COMPONENTS

Xylenes (Xylol)

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
☑	Xylenes (Xylol)	CAS# 1330-20-7	100	V/V	OSHA TWA 100 ppm (435 mg/m^3)

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may ocur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconcious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type:	Water spray, dry chemical, carbon dioxide, alcohol foam
Fire / Explosion Hazards:	Vapor may travel considerable distance to source of ignition and flash back.
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. Wear protective equipment. Clean up in a manner that doen't disperse dust.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal
Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and
Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-
Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an
Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations
(CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable
Quantities.

SECTION 7 HANDLING AND STORAGE

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	NIOSH/MSHA-approved respirator
Ventilation	
	Local Exhaust ☑

	Mechanical ☐
Protective Gloves:	Gloves to prevent skin exposure as rubber or vinyl
Eye Protection:	Goggles and Face Shield
Other Protective Equipment:	Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	12.2° C	Percent Volatile by Volume:	>99%
Boiling Point:	138° C	Evaporation Rate	Information not available
Vapor Pressure:	6.72	Evaporation Standard	
Vapor Density:	3.66	Auto Ignition Temp	Information not availlabl
Solubility in Water:	Negligible	Lower Flamm. Limit in Air	1.0
Appearance /Odors:	Red liquid, solvent odor	Upper Flamm. Limit in Air	6.0
Flash Point:	17.0° C		
Specific Gravity:	0.864		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Avoid contact with heat, sparks, flames, or other sources of ignition.
Materials to Avoid:	Oxidizing materials
Hazardous Decomposition Products:	Oxides of carbon, acrid fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- 3

SECTION 12 Ecological Information

Environmental Toxicity: When Released to the Soil and Water, this Material may Evaporate to Moderate Extent.

Environmental Toxicity: This material may be toxic to aquatic life. The LC50/96-hour values for fish are between 1 and 10 mg/l. The LC50/96-hour values for fish are between 10 and 100 mg/l.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Xylenes, 3, UN1307, PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingrdient
p-Xylene (106-42-3)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
p-Xylene (106-42-3)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

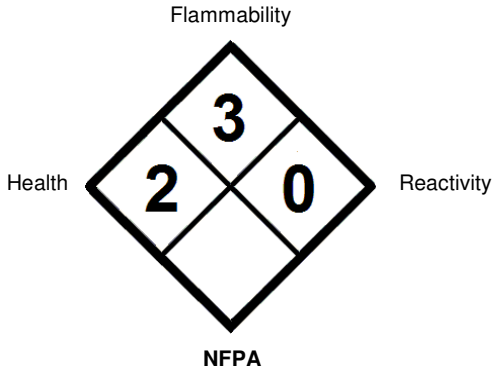
Federal, State & International Regulations –
Part 1: Ingredient.
p-Xylene (106-42-3)
RQ No
TPQ No
List YES
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
p-Xylene (106-42-3)
CERCLA 100
261.33 No
8(d) YES

Chemical Weapons Convention: No
TSCA 12 (b):YES
CDTA:NO PURE/LIQUID
SARA 311/312: Acute:YES
Chronic: YES
Fire: YES
Pressure: No
Reactivity: No
Australian Hazchem Code: 3Y
Poison Schedule:S6

SECTION 16 Additional Information

Effects of overexposure, Acute abd Chronic: Irritation of eyes, nose and throat. Reversible eye damage, dermatitis, chemical pneumonia, central nrevous system depression. Conditions aggravated: Persons with pre-existing eye, skin or respiratory conditions may be more susceptible. Target organs: Liver and kidneys.



NFPA

Revisions

6/22/2010	0.1	updated msds to 16 section from 10 section msds. STN

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.

MATERIAL SAFETY DATA SHEET

SECTION 1 ◆ PRODUCT AND COMPANY IDENTIFICATION

Explorer Pipeline Company 6846 South Canton P.O. Box 2650 Tulsa, Oklahoma 74101	**FOR EMERGENCY SOURCE INFORMATION CONTACT:** ➢ (918) 493 - 5100 ➢ CHEMTREC: (800) 424-9300 (24 hour contact) ➢ CANUTEC: (613) 996-6666 ➢ SETIQ: 91-800-00214

TRADE NAMES/SYNONYMS: Methyl Tertiary Butyl Ether, Methyl Ether, Butyl Ether, or MTBE	**CHEMICAL FAMILY:** Alkyl Ethyl	**EPL Code:** 17

This material safety data sheet represents the composite characteristics and properties of fungible petroleum hydrocarbons and other related substances transported by explorer pipeline company. The information presented was compiled from one or more product shipper sources and is intended to provide health and safety guidance for these fungible products. Individual shipper and manufacturer MSDSs are available at Explorer Pipeline Company's, Tulsa, Oklahoma, offices.

SECTION 2 ✷ HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! EXTREMELY FLAMMABLE LIQUID

- Clear, colorless liquid with ether-like odor;
- Eye and mucous membrane irritant - effects central Nervous system - harmful or fatal if swallowed - aspiration hazard;
- High fire hazard. Keep away from heat, spark, open flame, and other ignition sources;
- Contact may cause eye, skin and mucous membrane irritation. Avoid prolonged breathing of vapors or mists;
- Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects;
- If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs); and
- Obtain prompt medical attention. Keep Out of Reach of Children!

SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Methyl Tertiary Butyl Ether	1634-04-4	97+%

ACUTE

GETTING IT IN YOUR EYE...

- May cause minor eye irritation.

GETTING IT ON YOUR SKIN...

- No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin absorption exposure.
- May produce skin irritation.

SWALLOWING IT...

- The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

BREATHING IT...

- Excessive exposure may cause irritation to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

CHRONIC

- Medical information regarding special health effects is not conclusive.

CANCER, REPRODUCTIVE AND GENETIC EFFECTS

- This product has produced cancer, developmental and systemic toxicity in laboratory animals following repeated exposure. The significance of these results to human exposures has not been determined.

See Toxicological Information (Section 11) For More Information

SECTION 4 ✣ FIRST AID MEASURES

EYES: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.

SKIN: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first.

INGESTION: If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

INHALATION: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY

SECTION 5 ⌘ FIRE FIGHTING MEASURES

Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air. May travel long distances along ground before igniting/flashing back to vapor source.

FLASH POINT:(Method Used) -30°F	**FLAMMABLE LIMITS:** LEL: 1.0% UEL: 8.0%

AUTOIGNITION TEMPERATURE: 797°F

EXTINGUISHING MEDIA: Dry Chemical, CO_2, Foam for Alcohols, Water spray, and fog to cool exposures

HAZARDOUS REACTIONS/DECOMPOSITION: Combustion may produce carbon monoxide, carbon dioxide, and acrid fumes. Incomplete combustion generates highly poisonous carbon monoxide and perhaps other toxic gases.

SPECIAL INSTRUCTIONS: Do not enter fire area without proper protection. Decomposition products possible. Fight fires from safe distance/protected location. Heat may build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective due to low flash point. Even if material is water soluble, may not be practicable to extinguish fire by water dilution. Apply water spray/fog for cooling. Notify authorities if liquid enters sewer/public waters.

SECTION 6 ❖ ACCIDENTAL RELEASE MEASURES

- Flammable liquid. Release can cause fire/explosion. Liquids/vapors may ignite. Evacuate/limit access. Equip responders with proper protection. Kill all ignition sources. Stop release. Prevent flow to sewers/public waters. Notify fire/environmental authorities. Blanket with firefighting foam. Restrict water use for cleanup. Impound/recover large land spill. Soak up small spill with inert solids. Use suitable disposal containers. On water material partially soluble/may float or sink. Contain/minimize dispersion/collect. Disperse residue to reduce aquatic harm.

SECTION 7 ✂ HANDLING AND STORAGE

Prior to working with this product workers should be trained on its proper handling and storage

- Store in tightly closed/properly vented containers away from heat/sparks/open flame/strong oxidizers. Use only non-sparking tools. Store drums with bung in up position. Carefully vent internal pressure before removing closure. Containers must be grounded before transfer. Electrical equipment should conform to National Electric Code. Handle used containers with care; residue may be flammable/explosive, unless blanketed with inert gas.
- Isolate, vent, drain, wash, and purge equipment before maintenance. Remove all ignition sources, check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective equipment. Observe precautions pertaining to confined space entry.

SECTION 8 ⌖ EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is usually required beyond that needed for normal comfort control.

OTHER HYGIENIC AND WORK PRACTICES: Emergency eye wash fountains and safety showers should be available in the immediate vicinity or any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

EXPOSURE LIMITS

OSHA PEL		ACGIH TLV (2005)	
METHYL TERT BUTYL ETHER			
TWA	STEL	TWA	STEL
Not Applicable (N.A.)	N.A.	50 ppm	N.A.

PERSONAL PROTECTIVE EQUIPMENT

- **EYES:** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.
- **SKIN:** Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.
- **RESPIRATORY PROTECTION:** No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection is recommended.

SECTION 9 ϟ PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (760 MM HG): 131°F	**PERCENT VOLATILE BY VOLUME:** 100%
SPECIFIC GRAVITY (H_2O = 1): 0.74 @ 68°F	**VISCOSITY UNITS, TEMP:** No Data
FREEZING POINT: -164°F	**VAPOR DENSITY (AIR =1):** 3.1
VAPOR PRESSURE AT 68°F: 75 mm Hg	**SOLUBILITY IN WATER:** Approximately 4% to 5%
APPEARANCE AND ODOR: Clear, colorless liquid with ether-like odor.	

SECTION 10 ¤ STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: High temperature, open flame or spark.

OTHER PHYSICAL AND CHEMICAL PROPERTIES: No Data

MATERIALS TO AVOID: Strong oxidizing agents, ungrounded electrical equipment, open flames and spark.

HAZARDOUS POLYMERIZATION: Not Expected to Occur

SECTION 11 ֍ TOXICOLOGICAL INFORMATION

METHYL TERT BUTYL ETHER (MTBE)

Acute symptoms associated with human exposure to MTBE appear to be mild and transient. Breathing small amounts of MTBE for short periods may cause nose and throat irritation. In laboratory studies, rodents exposed to high doses of MTBE exhibited blood chemistry changes and liver and kidney abnormalities.

TOXICITY

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
$LD_{50(oral)}$	Mouse	3,500 mg/kg	$LC_{50(inh)}$	Mouse	35,000 ppm	$LD_{LO(oral)}$	Human	No Data Available

CARCINOGENICITY

IARC	Sufficient evidence in animals	Inadequate evidence in humans	Group 3: Possible human carcinogen
NTP	Not identified as a Know Carcinogen or Anticipated Human Carcinogen		

California (Prop 65): Listed as carcinogen	NIOSH: Not Listed	ACGIH: A3 – Confirmed Animal	OSHA: not classifiable as a human carcinogen

MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

In laboratory studies, MTBE vapor exposure at the high dose concentration was associated with an increased incidence of liver tumors in female mice. Also, at high dose concentration exposures, MTBE was associated with an increased incidence of kidney and testicular (Leydig cell) tumors in male rats. There is no evidence that MTBE causes cancer in humans.

SECTION 12 ❋ ECOLOGICAL INFORMATION

ACUTE EFFECTS: MTBE is considered moderately toxicity to aquatic life. Insufficient data are available to evaluate or predict the short-term effects to birds or land animals.

CHRONIC EFFECTS: MTBE is considered moderately toxicity to aquatic life. Insufficient data are available to evaluate or predict the long-term effects to birds or land animals.

DISTRIBUTION AND PERSISTENCE IN THE ENVIRONMENT: MTBE evaporates when exposed to air. It dissolves when mixed with water. Most direct releases of MTBE to the environment are to air. MTBE also evaporates from water and soil exposed to air. Once in air, it is expected to break down to other chemicals. Because it is a liquid that does not bind well to soil, MTBE that makes its way into the ground can move through the ground and enter groundwater. Plants and animals are not likely to store methyl tertiary-butyl ether..

SECTION 13 ✣ DISPOSAL CONSIDERATIONS

Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to low flash point. Use registered transporters. Dilute aqueous waste may biodegrade.

SECTION 14 ★ TRANSPORTATION INFORMATION

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

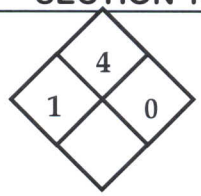
Agency	Shipping Name	Packing Group	Hazard Class	UN/NA #
U.S. DOT	Methyl tert-butyl ether	II	Flammable Liquid	UN 2398

SECTION 15 ☽ REGULATORY INFORMATION

CERCLA RQ's (40 CFR Part 302)	MTBE - 1,000 pounds
RCRA	Not Listed
SARA (40 CFR Part 355) TPQ's	None of the ingredients are listed
SARA Title III Section 313	All ingredients listed
California's Prop 65	All ingredients listed
OSHA	All ingredients are listed as hazardous under 29 CFR 1910.1200

SECTION 16 ❁ OTHER INFORMATION

NFPA 704 LABEL:



HMIS LABEL

1-4-0

MSDS REVISIONS: Change in Format and update of Information

MSDS CREATION DATE: July 1997 **REVISION #1:** 01/03/06

DISCLAIMER

The information in this MSDS was obtained from sources which we believe are reliable. **HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS ACCURACY.** Some conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. **FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.** All product measurements such as flash point, *etc.* are considered approximate values. All data provided by Explorer Pipeline Company.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, such as refined petroleum hydrocarbon mixtures, this MSDS information may not be applicable.

MSDS DEVELOPER: Cass Willard

Cass Willard, CIH

DATE: 01/03/06

MATERIAL SAFETY DATA SHEET FOR LEAD

SECTION 1 – MATERIAL IDENTIFICATION

Material Name: **Lead**

Description: Bluish-Grey metal, apparently odorless

Other Designations: Soft lead, Hard Lead, Calcium lead.

Manufacturer: Mars Metal Company,
4130 Morris Drive,
Burlington, Ontario
L7L 5L6

Emergency Phone Number: (905) 637-3862

SECTION II – HAZARDOUS INGREDIENTS EXPOSURE GUIDELINES

Base Metal: Lead – C.A.S. #7439-9201/Exposure Limits: 1.05 Mg/M3 ACGIH TWA
Alloys: Sb, Sn, As, Cu, Ca – Antimony C.A.S. #7440-36-0/
Exposure Limits: 0.50 Mg/M3 ALGIH TWA

SECTION III – PHYSCIAL DATA:

Boiling Point: 3164 degrees Fahrenheit
Melting Point: 622 degrees Fahrenheit
Specific Gravity: (H o = 1) Approximately 10.3
Vapour Pressure: (MM HG) N.A.
Solubility in Water: Negligible

SECTION IV – FIRE AND EXPLOSION DATA

Hazards: Toxic fumes and vapours are produced by molten lead.
Dust explosion potential exists

Extinguishing Media: Dry chemical or carbon dioxide should be used on surrounding Area.

Firefighting Procedures: Full body protective clothing should be worn and positive pressure breathing apparatus used.

Flammability: Metal is not flammable, powders or dust may be flammable.

SECTION V – REACTIVITY DATA

Chemical Stability: Metal is stable.

Incompatibility: Strong oxidizers, Hydrogen Peroxide, Active metals.

Hazardous Decomposition Products: High temperature may produce hazardous fumes.

SECTION VI – HEATH HAZARD DATA AND FIRST AID

Threshold Limit Value: Time weighed average exposure 0.15 MG/M3. Short term Exposure 0.30 MG/M3.

Routes of Exposure: Ingestion, Inhalation, and Eyes.

EFFECTS OF EXPOSURE:

Acute Overexposure: May cause weakness, vomiting, loss of appetite and Constipation.

Chronic Exposure: May cause weakness, Insomnia, Hypertension, Anemia, Neuromuscular dysfunction's and joint paint.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: Rinse mouth, give plenty of water, get medical attention.

Inhalation: Remove from exposure to fresh air, get medical attention.

Eyes: Rinse thoroughly with water, get medical attention.

Skin: Remove contaminated clothing and wash effected area with water and soap.

SECTION VII – SPILL AND LEAK PROCEDURES:

Released or Spilled: Sweep up carefully using water (or other suitable wetting agent) to
prevent emissions, place waste in sealable containers which are
to be disposed of in accordance with local legislation.

Waste Disposal Method: Contact local authorities for instructions on proper disposal procedures in your area.

SECTION VIII – SPECIAL PROTECTION INFORMATION:

Respiratory: Use respirators as per the regulations respecting Lead.

Eye Protection: Face shield/approved safety glasses.

Hands: Protective gloves should be worn when handling Lead.

Other Protective Equipment: Clean overalls, safety boots, and helmets.

Local Exhaust: Adequate local and general ventilation must be provided.

SECTION IX – SPECIAL PRECAUTIONS:

Handling and Storage: Lead dust should be handled in sealed containers. Every effort should be made to prevent dusts from becoming airborne.

Other Precautions: Use wet methods for dust control whenever possible. Ensure that there is sufficient ventilation in areas of lead use.

January 2008

MATERIAL SAFETY DATA SHEET

(POLYCHLORINATED BIPHENYLS)

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name: polychlorinated biphenyls (PCBs)

HAZARD IDENTIFICATION

Reports of Carcinogenicity: YES

HEALTH HAZARDS ACUTE AND CHRONIC

- **Eyes**: Moderately irritating to eye tissues.
- **Skin**: Can be absorbed through intact skin, may cause de-fatting, potential for chloracne.
- **Inhalation**: Possible liver injury.
- **Ingestion**: Slightly toxic; reasonably anticipated to be carcinogenic.

EFFECTS OF OVER-EXPOSURE

Can cause dermatological symptoms; however, these are reversible upon removal of exposure source.

FIRST AID MEASURES

- **Eyes**: Irrigate immediately with copious quantities of running water for at least 15 minutes if liquid or solid PCBs get into them.
- **Skin:** Contaminated clothing should be removed and the skin washed thoroughly with soap and water. Hot PCBs may cause thermal burns.
- **Inhalation**: Remove to fresh air; if skin rash or respiratory irritation persists, consult a physician (if electrical equipment arcs over, PCBs may decompose to produce hydrochloric acid).
- **Ingestion**: Consult a physician. Do not induce vomiting or give any oily laxatives. (If large amounts are ingested, gastric lavage is suggested).

FIRE FIGHTING MEASURES: Flash Point: >141 ^{o}C (285.8 ^{o}F)

EXTINGUISHING MEDIA: PCBs are fire-resistant compounds.

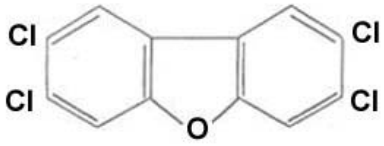
FIRE-FIGHTING PROCEDURES

Standard fire-fighting wearing apparel and self-contained breathing apparatus should be worn when fighting fires that involve possible exposure to chemical combustion products. Fire fighting equipment should be thoroughly cleaned and decontaminated after use.

UNUSUAL FIRE/EXPLOSION HAZARD

If a PCB transformer is involved in a fire-related incident, the owner of the transformer is required to report the incident. Consult and follow appropriate federal, provincial and local regulations.

***Note**: When askarel liquid becomes involved in a fire, toxic by-products of combustion are typically produced including polychlorinated dibenzofurans and polychlorinated dibenzodioxins, both known carcinogens. The structures of these chemical species are as follows:*

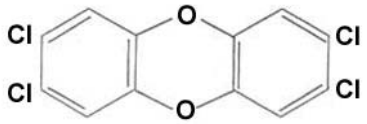


TCDF

$C_{12}H_{8-n}Cl_nO$

$n = 4 - 8$

2,3,7,8-tetrachlorodibenzofuran



TCDD

$C_{12}H_{8-n}Cl_nO_2$

$n = 4 - 8$

2,3,7,8-tetrachloro-dibenzo-p-dioxin

***Note**: 2,3,7,8-tetrachloro-dibenzo-p-dioxin is one of the most potent teratogenic, mutagenic and carcinogenic agents known to man.*

SPILL RELEASE PROCEDURES

Cleanup & disposal of liquid PCBs are strictly regulated by the federal government. Ventilate area. Contain spill/leak. Remove spill by means of absorptive material. Spill clean-up personnel should use proper protective clothing. All wastes and residues containing PCBs should be collected, containerized, marked and disposed of in the manner prescribed by applicable federal, provincial and local laws.

HANDLING AND STORAGE PRECAUTIONS

Care should be taken to prevent entry into the environment through spills, leakage, use, vaporization, or disposal of liquid. Avoid prolonged breathing of vapours or mists. Avoid contact with eyes or prolonged contact with skin. Comply with all federal, provincial and local regulations.

OTHER PRECAUTIONS

Federal regulations require PCBs, PCB items, storage areas, transformer vaults, and transport vehicles to be appropriately labelled.

RESPIRATORY PROTECTION

Use OHSA approved equipment when airborne exposure limits are exceeded. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical splash goggles. The respirator use limitations specified by the manufacturer must be observed.

VENTILATION

Provide natural or mechanical ventilation to control exposure levels below airborne exposure levels.

PROTECTIVE GLOVES: Wear appropriate chemical resistant gloves to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles and have eye baths available.

OTHER PROTECTIVE EQUIPMENT

Wear appropriate protective clothing. Provide a safety shower at any location where skin contact can occur.

WORK HYGIENIC PRACTICES

Wash thoroughly after handling. Supplemental safety and health : none

PHYSICAL/CHEMICAL PROPERTIES

- **Vapour pressure:** (mm Hg @100 ^{o}F) 0.005 - 0.00006
- **Viscosity:** (CENTISTOKES) 3.6 - 540
- **Stability indicator/materials to avoid:** Yes
- **Stability Condition to Avoid:** PCBs are very stable, fire-resistant compounds.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, hydrogen chloride, phenolics, aldehydes, furans, dioxins

WASTE DISPOSAL METHODS

Consult the applicable PCB regulations prior to any disposal of PCBs or PCB-contaminated items.

Material Safety Data Sheet

MSDS ID NO.: 0255MAR019
Revision date: 09/12/2005

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: Marathon 325 Extract
Synonyms: SB-AE Binder; 325 Aromatic Extract; Heavy Paraffinic Solvent Extract
Chemical Family: Aromatic Extract
Formula: Mixture

Manufacturer:
Marathon Petroleum Company LLC
539 South Main Street
Findlay OH 45840

Other information: 419-421-3070
Emergency telephone number: 877-627-5463

2. COMPOSITION / INFORMATION ON INGREDIENTS

325 Extract is a complex mixture of hydrocarbons obtained as the extract from a solvent extraction process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20-C50. The CAS description of this stream states that it is likely to contain >5% 4 to 6-membered condensed ring polycyclic aromatic hydrocarbons.

This product was analyzed by MAP and found to contain <0.05% of the 22 3-7 ring polycyclic aromatic compounds identified as Persistent Bioaccumulative Toxic (PBT) Chemicals subject to reporting under EPA EPCRA Section 313 regulations.

Product information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon 325 Extract	64742-04-7	100			

Component Information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Extracts, Petroleum Heavy Paraffinic Distillate Solvent	64742-04-7	100.0000			
Sulfur Compounds	Mixture	0.5-4			

Notes: The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

THIS PRODUCT IS A BROWN TO BLACK VISCOUS COLORED LIQUID. CONTAINS POLYNUCLEAR AROMATIC HYDROCARBONS SOME OF WHICH HAVE PRODUCED CANCER IN LABORATORY ANIMALS AND HUMANS. REPEATED SKIN CONTACT TO SOME COMPONENTS OF THIS PRODUCT HAVE PRODUCED SYSTEMIC TOXICITY (INCLUDING LIVER DAMAGE) IN LABORATORY ANIMALS. VAPORS CAN PRODUCE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. THIS PRODUCT IS NOT A COMBUSTIBLE LIQUID PER THE OSHA HAZARD COMMUNICATION STANDARD, BUT WILL IGNITE AND BURN AT TEMPERATURES EXCEEDING THE FLASH POINT.

OSHA WARNING LABEL:

DANGER!
CONTAINS POLYNUCLEAR AROMATIC HYDROCARBONS SOME OF WHICH HAVE PRODUCED CANCER IN LABORATORY ANIMALS AND HUMANS.
REPEATED SKIN CONTACT TO SOME COMPONENTS IN THIS PRODUCT HAS PRODUCED SYSTEMIC TOXICITY (INCLUDING LIVER DAMAGE) IN LABORATORY ANIMALS.

CONSUMER WARNING LABEL:

A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation: Exposure to vapor or mist may cause pulmonary irritation, dizziness, nausea and loss of consciousness.

Ingestion: Product is presumed to be slightly toxic (single dose). Significant ingestion could result in liver damage.

Skin contact: Prolonged and repeated liquid contact can cause dermatitis, folliculitis or oil acne. Components of this product may cause skin sensitization. Components of this product can cause liver damage if absorbed through the skin.

Eye contact: Liquid or vapor contact may result in slight eye irritation.

Carcinogenic Evaluation:

Product information

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon 325 Extract 64742-04-7	NE			

Notes: The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity of untreated vacuum distillates, acid-treated oils, and aromatic oils, including extracts from solvent treatment of distillates and the high boiling fraction of catalytically cracked oils in animals.

Component Information

Notes: The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have concluded that certain polycyclic aromatic hydrocarbons, i.e. (benzo(a)pyrene, benz(a)anthracene, benzo(a)phenanthrene, indeno(1,2,3-cd)pyrene, benzo(j)fluoranthene, benzo(j,k,fluorine, benzo(g,h,i)perylene, and 5-methylchrysene are probably carcinogenic to humans (Group 2A and B).

4. FIRST AID MEASURES

Inhalation: If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.

Skin contact:	Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.
Ingestion:	Ingestion not likely. If swallowed, do not induce vomiting and do not give liquids. Immediately call a physician.
Eye contact:	Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.
Medical conditions aggravated by exposure:	Preexisting skin conditions, respiratory disorders, and impaired liver function may be aggravated by exposure to components of this product.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
Specific hazards:	This product is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.
Special protective equipment for firefighters:	Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.
Flash point:	435 F; 224 C (Min)
Autoignition temperature:	No data available.
Flammable limits in air - lower (%):	No data available.
Flammable limits in air - upper (%):	No data available.

NFPA rating:	**HMIS classification:**
Health: 2	Health: 2
Flammability: 1	Flammability: 1
Reactivity: 1	Reactivity: 1
Other: -	Special: *See Section 8 for guidance in selection of personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer. Notify local health and pollution control agencies, if appropriate. Contain liquid with sand or soil. Recover and return product to source.

7. HANDLING AND STORAGE

Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid skin contact. Stay upwind and vent open hatches before unloading. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures:	Local or general exhaust required in an enclosed area or when there is inadequate ventilation.
Respiratory protection:	Not required under normal conditions and adequate ventilation. Use atmosphere supplying respirators in confined spaces or when vapors exceed permissible limits; otherwise, an organic vapor respirator with pre-filter for fumes can be used. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Impermeable gloves (e.g., nitrile, viton, tyvek/saranex 23) to prevent skin contact. Chemical resistant apron or other protective clothing to avoid skin contact.
Eye protection:	Goggles and faceshield when handling hot material.
Hygiene measures:	Use mechanical ventilation equipment that is explosion-proof.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Brown To Black Viscous Liquid
Physical state (Solid/Liquid/Gas):	Liquid
Substance type (Pure/Mixture):	Mixture
Color:	Brown to Black
Odor:	Aromatic Sweet
Molecular weight:	Not determined.
pH:	Neutral
Boiling point/range (5-95%):	642-1017 F
Melting point/range:	Not determined.
Decomposition temperature:	Not applicable.
Specific gravity:	1.0
Density:	8.3 lbs/gal
Bulk density:	No data available.
Vapor density:	No data available.
Vapor pressure:	Negligible
Evaporation rate:	No data available.
Solubility:	Not determined
Solubility in other solvents:	No data available.
Partition coefficient (n-octanol/water):	No data available.
VOC content(%):	No data available.
Viscosity:	453.4 cSt @ 40 C 16.4 cSt @ 100 C
Pour Point:	70 F

10. STABILITY AND REACTIVITY

Stability:	The material is stable at 70 F, 760 mm pressure.
Polymerization:	Will not occur.

Hazardous decomposition products: Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.

Materials to avoid: Strong oxidizers such as nitrates, chlorates, peroxides.

Conditions to avoid: Sources of heat or ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon 325 Extract	64742-04-7	No data available	>2 mg/kg [Rabbit]	>5 gm/kg [Rat]

Lifetime skin painting studies with heavy distillate aromatic extracts (HDAE) have produced tumors following prolonged and repeated skin contact. HDAE was found to be positive in an Ames mutagenicity test. Repeated dermal application of HDAE (30 mg/kg/day for 13 weeks) resulted in anemia, liver degeneration and injury to bone marrow and lymphoid tissues. Treatment related mortality and body weight reduction was observed at 500 mg/kg. Repeated dermal application (125 mg/kg/day) of HDAE to pregnant rats during gestation produced maternal and fetal toxicity. Increased resorptions were observed at doses of 30 mg/kg/day and above.

Summary of health effect data on aromatic extracts:

This product contains >0.1% 3-7 ring polynuclear aromatic hydrocarbons (PAC's). Some 3-7 ring PACs have been shown to be carcinogenic in experiment animals. An increased risk of cancer has been observed in workers employed in the aluminum production, coal gasification, coal-tar pitch, coke production and iron and steel industries that had been occupationally exposed to polynuclear aromatic hydrocarbons (PAC). Since these kinds of PACs have been measured at high levels in air samples taken in these idustries, IARC has concluded that these PACs are probably carcinogenic to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: If spilled, hot product and/or the coating action of the oil components could harm plant life.

The 96 hour TLM for WAF (water accommodated fraction) of an aromatic extract is >1000 mg/l in fish or algae. 21 day exposures of 1000 mg/l WAF of an aromatic extract to Daphnia did not affect survival nor reproduction.

13. DISPOSAL CONSIDERATIONS

Cleanup Considerations: This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

14. TRANSPORT INFORMATION

49 CFR 172.101:

DOT:

Transport Information: This material when transported via US commerce is NOT REGULATED by DOT regulations.

DOT reportable quantity (lbs): Not applicable.

TDG (Canada):
Regulated substances: Not applicable.

15. REGULATORY INFORMATION

Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard: This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Extracts, Petroleum Heavy Paraffinic Distillate Solvent	NA
Sulfur Compounds	NA

SARA Section 304: This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Extracts, Petroleum Heavy Paraffinic Distillate Solvent	NA
Sulfur Compounds	NA

SARA Section 311/312: The following EPA hazard categories apply to this product:

Acute Health Hazard
Chronic Health Hazard

SARA Section 313: This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Extracts, Petroleum Heavy Paraffinic Distillate Solvent	None
Sulfur Compounds	None

State and Community Right-To-Know Regulations:
The following component(s) of this material are identified on the regulatory lists below:

Extracts, Petroleum Heavy Paraffinic Distillate Solvent

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Carcinogen; Extraordinarily hazardous
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed

Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	carcinogen; extraordinarily hazardous
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Sulfur Compounds

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Canadian Regulatory Information:

Canada DSL/NDSL Inventory:	This product and/or its components are listed either on the Domestic Substances List (DSL) or the Non Domestic Substance List (NDSL).

16. OTHER INFORMATION

Additional Information: No data available.

Prepared by: Craig M. Parker Manager, Toxicology And Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Marathon Petroleum Company LLC (MPC) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. MPC assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET — MALATHION ULV® CONCENTRATE INSECTICIDE

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

Loveland Products, Inc.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-800-301-7976
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: MALATHION ULV® CONCENTRATE INSECTICIDE
CHEMICAL NAME: Malathion; (0-0-Dimethyl phosphorodithioate of diethyl mercaptosuccinate)
CHEMICAL FAMILY: Organophosphate Insecticide
EPA REG. NO.: 34704-565
MSDS Number: 000565-04b-LPI **MSDS Revisions:** See section 16 **Date Of Issue:** 07/08/04 **Supersedes:** 01/08/04

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes, or clothing. Do not contaminate feed or foodstuffs.

This product is clear yellow-amber colored liquid with a mild petroleum odor.
Warning Statements:

NOTE TO PHYSICIAN: This product is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote. Symptoms of cholinesterase inhibition include salivation, gastrointestinal hypermotility, abdominal cramping, nausea, diarrhea, sweating, miosis, tearing, blurred vision, headache, dizziness, ataxia, bradycardia, dyspnea, cyanosis, and muscle twitching or tremors. In extreme cases, tetany, mental confusion, incontinence, weakness, collapse, paralysis, convulsive seizures, and even death, can occur.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Malathion	96.50	121-75-5	15 mg/m^3 (skin)
Inert Ingredients	3.50		

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

4. FIRST AID MEASURES

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to mouth, if possible. Call a poison control center or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): 325.4°F/163°C (PMCC)
FLAMMABLE LIMITS (LFL & UFL): None established
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition products include dimethyl sulfide, sulfur dioxide, carbon monoxide, carbon dioxide, and phosphorus pentoxide.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area. Avoid heavy hose streams.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain runoff by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Stay well back from fire area.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Check local, state and federal regulations for proper disposal. Flush the area with water to remove any residue.
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in a safe manner. Store in original container only. Keep container tightly closed when not in use. Store at temperatures not exceeding 77°F/25°C. Do not use or store near heat or open flame. Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment: Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or Viton® and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
RESPIRATORY PROTECTION: Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved pesticide respirator.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Malathion	15 mg/m^3 (Skin) - 1 mg/m^3	(Inhalable fraction of aerosol); BEI*

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear yellow-amber colored liquid with a mild petroleum odor.
SOLUBILITY: Emulsifies
SPECIFIC GRAVITY (Water = 1): 1.231 g/ml
BULK DENSITY: 10.27 lbs/gal.
pH: 3.7-3.8 (50% solution)
VAPOR PRESSURE: 3.4 x 10^{-6} mm/Hg @ 25°C
BOILING POINT: >300°F/>148.9°C
PERCENT VOLATILE (by volume): Not established
EVAPORATION RATE: Not established
Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBILITY: Strong alkalis, amines, and strong oxidizing compounds. Can corrode iron, steel, tin plate, lead and copper. Rapidly hydrolyzed at pH >7.0 or <5.0.
HAZARDOUS DECOMPOSITION PRODUCTS: Dimethyl sulfide, sulfur dioxide, carbon monoxide, carbon dioxide, and phosphorus pentoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD_{50} (rat): 5500 mg/kg
Acute Dermal LD_{50} (rabbit): > 2000 mg/kg
Eye Irritation (rabbit): Slight irritation
Skin Irritation (rabbit): Slight irritation
Inhalation LC_{50} (rat): >5.2 mg/L (4 hr)
Skin Sensitization (Guinea Pig): Not a sensitizer
Carcinogenic Potential: Not listed by NTP, ACGIH, OSHA, or NIOSH as a carcinogen.

12. ECOLOGICAL INFORMATION

Malathion is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water by cleaning equipment or disposal of wash waters. Highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. **Metal:** Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by local, state and federal regulations. **Plastic:** Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or, incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: LESS THAN 10.2 GALLONS NOT REGULATED BY USDOT.
DOT Shipping Description: RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (MALATHION) MARINE POLLUTANT ERG GUIDE 171
U.S. Surface Freight Classification: INSECTICIDES, INSECT REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120, CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA			HMIS	
2	Health	0 Least	2	Health
1	Flammability	1 Slight	1	Flammability
0	Instability	2 Moderate	0	Reactivity
		3 High	H	PPE
		4 Severe		

SARA Hazard Notification/Reporting
SARA Title III Hazard Category:

Immediate	Y	Fire	N	Sudden Release of Pressure	N
Delayed	Y	Reactive	N		

Reportable Quantity (RQ) under U.S. CERCLA: Malathion (CAS: 121-75-5): 100 pounds
SARA, Title III, Section 313: Malathion (CAS: 121-75-5) 96.5%
RCRA Waste Code: Not listed
CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: Format modified to address changes in ANSI Standard Z400.1-2004

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

®Viton is a registered trademark of DUPONT DOW ELASTOMERS L.L.C.

**ACGIH® has recommended a Biological Exposure Index for this substance: Acetylcholinesterase Inhibiting Pesticides*

®ACGIH is a registered trademark of American Conference of Governmental Industrial Hygienists

MATERIAL SAFETY DATA SHEET

UNITED MINERAL & CHEMICAL CORPORATION
1100 VALLEY BROOK AVENUE
LYNDHURST, NJ 07071
TEL: 201-507-3300 FAX: 201-507-1506

FOR EMERGENCY CALL:
C H E M T R E C
1-800-424-9300

SECTION A - PRODUCT INFORMATION

TRADE NAME : ARSENIC METAL:
MBE CHARGES, ARSENIC CHUNK & GRANULE
REVISION DATE : NOVEMBER 16, 2007

CAS NUMBER : 7440-38-2
SYNONYMS : METALLIC ARSENIC; GREY ARSENIC; ARSENIA
CHEMICAL FAMILY : METALS - GROUP 5a
FORMULA : As

SECTION B - HAZARDOUS COMPONENTS

COMPONENT	CAS NO.	%	PEL/TLV
ARSENIC METAL (As)	7440-38-2	100	0.01mg/m^3 ACGIH TWA AS As 0.01mg/m^3 OSHA TWA, INORGANIC COMPOUNDS AS As (SEE 29 CFR 1910.1018) 0.5 mg/m^3 OSHA TWA, ORGANIC COMPOUNDS AS As 0.002 mg/m^3/15 min. CEILING-NIOSH, INORGANIC CMPD. 5 mg As/m^3 IDLH-CARCINOGEN, INORGANIC COMPOUNDS

TWA – Time Weighted Average over 8 hours
IDLH - Immediately dangerous to life & health

See the OSHA Inorganic Arsenic Standard at 29 CFR 1910.1018 before processing.

SECTION C - PHYSICAL PROPERTIES

BOILING POINT (°C) : SUBLIMES @ 615
MELTING POINT (°C) : 817 @ 3.6477 Mpa
VAPOR PRESSURE (mm Hg) : 1mm @ 372ºC
VAPOR DENSITY (AIR=1) : N/A
SOLUBILITY IN WATER : INSOLUBLE
ODOR THRESHOLD : N/A
APPEARANCE & ODOR : SILVER GRAY CRYSTALLINE CHUNKS, RODS, OR GRANULES; NO ODOR AS METAL AS COMPOUND, AsH_3 HAS GARLIC ODOR

SPECIFIC GRAVITY : 5.72
FREEZING POINT (°) : N/A
PERCENT VOLATILE (BY WT.) : N/A
EVAPORATION RATE : N/A
pH (0 % IN WATER) : NONE

SECTION D - FIRE & EXPLOSION DATA

FLASH POINT (°) : NONE

FLAMMABLE LIMITS : **LEL** : **(N/A)** **UEL : (N/A)** **AUTO IGNITION TEMP (° F)**: **(UNKNOWN)**
EXTINGUISHING MEDIA : **WATER** : **()** **FOAM** : **(X)** **CO_2**: **(X)** **DRY CHEMICAL**: **(X)**

SPECIAL FIRE FIGHTING PROCEDURES : ARSENIC IN MASS FORM IS NON-FLAMMABLE. IN THE EVENT OF A FIRE, RESTRICT PERSONS NOT WEARING PROTECTIVE EQUIPMENT FROM AREA. TRY TO SNUFF FIRE WITH SAND, DRY MEDIA, FOAM OR CO_2. IF NO OTHER OPTIONS AVAILABLE, USE WATER & ALWAYS WEAR SELF CONTAINED BREATHING APPARATUS OR NIOSH TOXIC VAPOR RESPIRATOR. POISONOUS GASES ARE PRODUCED IN FIRE, INCLUDING ARSENIC OXIDES.

UNUSUAL FIRE & EXPLOSION HAZARDS : ARSENIC, WHEN HEATED OR IN CONTACT WITH ACID OR ACID FUMES, CAN PRODUCE HIGHLY TOXIC FUMES (SUCH AS ARSINE). ARSENIC REACTS VIGOROUSLY WITH OXIDIZING MATERIALS. ARSENIC IS FLAMMABLE IN THE FORM OF DUST WHEN EXPOSED TO HEAT OR FLAME OR BY CHEMICAL REACTION WITH POWERFUL OXIDIZERS (SEE SECTION E). SLIGHT EXPLOSION HAZARD EXISTS IN THE FORM OF DUST WHEN EXPOSED TO FLAME. IN THE EVENT OF A FIRE OR SPILL, CONTACT THE STATE DEPT. OF THE ENVIRONMENT & YOUR REGIONAL OFFICE OF THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY.

SECTION E - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY : HYDROGEN GAS CAN REACT WITH INORGANIC ARSENIC TO FORM THE HIGHLY TOXIC GAS ARSINE. INCOMPATIBLE WITH BROMINE AZIDE, DIRUBIDIUM ACETYLIDE, HALOGENS, PALLADIUM ZINC, PLATINUM, NCl_3, $AgNO_3$, CrO_3, Na_2O_2, HEXAFLUOROISOPROPYLIDENEAMINO LITHIUM. CAN REACT WITH ACIDS OR ACID FUMES AND POWERFUL OXIDIZERS SUCH AS BROMATES, CHLORATES, IODATES, PEROXIDES, LITHIUM, $NaCl_3$, KNO_3, $KMnO_3$, Rb_2C_2, $AgNO_4$, NOCl, IF_5, CrO_3, CIF_3, ClO, BrF_3, BrF_5, BrN_3, RbC_3BCH, CsC_3BCH.
HAZARDOUS DECOMPOSITION PRODUCTS : ARSENIC FUMES, ARSINE, OTHER ARSENIC COMPOUNDS
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR
CONDITIONS TO AVOID : AVOID OPEN CONTAINERS AND CONTACT WITH INCOMPATIBLE MATERIALS

N/A = NOT APPLICABLE

SECTION F - PERSONAL PROTECTIVE EQUIPMENT INFO

RESPIRATORY EQUIPMENT : FOR HANDLING ELEMENTAL ARSENIC IN CHUNK, ROD, OR GRANULES USE NIOSH APPROVED, AIR PURIFYING, TOXIC VAPOR RESPIRATOR FOR PARTICULATE & FUME/ AIR LEVEL. IF PROCESSING MATERIAL INTO INORGANIC ARSENIC COMPOUNDS, CHOOSE PROPER RESPIRATORY PROTECTION IN ACCORDANCE WITH THE OSHA INORGANIC ARSENIC STANDARD AT 29 CFR 1910.1018 (h). FOR UNKNOWN CONCENTRATIONS OF INORGANIC ARSENIC OR UNDER FIRE-FIGHTING CONDITIONS USE FULL FACEPIECE SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE.

PROTECTIVE GLOVES : NEOPRENE OR PLASTIC

EYE PROTECTION : FACE SHIELD OR VENTED GOGGLES FOR WHEN DUST/ FUME OR INORGANIC COMPOUNDS ARE GENERATED.

VENTILATION : LOCAL EXHAUST/MECHANICAL(GENERAL) SCRUBBER OR TRAP IF POSSIBLE TO MAINTAIN EXPOSURE TO LESS THAN PERMISSIBLE LIMITS FOR ELEMENTAL ARSENIC AND ANY COMPOUNDS BEING GENERATED (SEE SECTION B)

OTHER PROTECTIVE EQUIPMENT : LAB COAT, COVERALLS, COVERLETS FOR SHOES, AND ACCESS TO EYEWASH FOUNTAIN FOR DUST OR INORGANIC COMPOUND GENERATION

SECTION G - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : 0.01mg/m^3 TWA ARSENIC, ELEMENTAL & INORGANIC COMPOUNDS(EXCEPT ARSINE), AS As

PRIMARY ROUTES OF EXPOSURE : INHALATION OF FUMES, DUST, REACTION GASES; INGESTION; SKIN CONTACT

ORAL LD_{50} : 763 mg/m^3 RAT; ORAL RAT TDLo 605 micrograms/kg – REPRODUCTIVE EFFECTS; ORAL-MAN TDLo 7857 mg/kg/55 year old – SKIN & GASTROINTESTINAL EFFECTS

DERMAL IRRITATION-RABBIT : UNKNOWN; SUBCUTANEOUS RABBIT LDLo: 300 mg/kg

EYE IRRITATION-RABBIT : UNKNOWN

OSHA PEL : 0.01mg/m^3 TWA INORGANIC COMPOUNDS AS As; 0.5 mg/m^3 TWA ORGANIC COMPOUNDS AS As.

ACGIH TLV : 0.01mg/m^3 TWA ELEMENTAL ARSENIC & INORGANIC COMPOUNDS (EXCEPT ARSINE), AS As

EFFECTS OF OVEREXPOSURE : ARSENIC METAL IS NOT AS READILY AVAILABLE IN THE BODY AS ARSENIC IN THE FORM OF DUST OR VAPOR OR WHEN PROCESSED INTO ARSENIC COMPOUNDS (ARSENICALS). INORGANIC ARSENICALS ARE MORE TOXIC THAN ORGANIC ARSENICALS.

ACUTE EFFECTS: ARSENIC IS A POISON BY SUBCUTANEOUS, INTRAMUSCULAR, AND INTRAPERITONEAL ROUTES. ACUTE ARSENIC POISONING FROM INGESTION RESULTS IN BURNING LIPS, THROAT CONSTRICTION, ABDOMINAL PAIN, MARKED IRRITATION OF THE STOMACH AND INTESTINES WITH NAUSEA, VOMITING, AND DIARRHEA. IN SEVERE CASES THE STOOLS AND VOMIT ARE BLOODY AND THE PATIENT MAY GO INTO COLLAPSE AND SHOCK WITH WEAK, RAPID PULSE, COLD SWEATS, COMA, AND DEATH. INHALATION MAY CAUSE ULCERATION OF NASAL SEPTUM, RESPIRATORY IRRITATION (COUGH, SORE THROAT), SHORTNESS OF BREATH AND WEAKNESS. SKIN OR EYE CONTACT MAY CAUSE DERMATITIS, SKIN AND EYE IRRITATION. AFTER ABSORPTION, ARSENIC MAY CAUSE MULTI-ORGAN FAILURE AS DELAYED EFFECTS. ARSENIC IS AN EXPERIMENTAL TERATOGEN (MAY CAUSE DAMAGE TO THE DEVELOPING FETUS) AND MAY CAUSE SPONTANEOUS ABORTION OR STILLBIRTH WITH EITHER ACUTE OR CHRONIC POISONING.

CHRONIC EFFECTS: ARSENIC IS A CONFIRMED HUMAN CARCINOGEN AND HAS BEEN ASSOCIATED WITH LUNG, BLADDER, SKIN, AND OTHER CANCERS IN HUMANS. CHRONIC ARSENIC POISONING MAY INCLUDE ANY OR ALL OF THE FOLLOWING: DIGESTIVE SYSTEM DISTURBANCES, LOSS OF APPETITE, CRAMPS, NAUSEA, CONSTIPATION, DIARRHEA; LIVER DAMAGE WHICH MAY RESULT IN JAUNDICE; DISTURBANCES OF THE BLOOD, KIDNEYS AND NERVOUS SYSTEM; SKIN ABNORMALITIES INCLUDING ITCHING, PIGMENTATION, AND POSSIBLE CANCEROUS CHANGES. ARSENIC HAS INDUCED DNA DAMAGE IN HUMAN CELLS.

TARGET ORGANS (NIOSH) : (FOR INORGANIC COMPOUNDS AS As): LIVER, KIDNEYS, SKIN, LUNGS, LYMPHATIC SYSTEM

KNOWN EFFECTS ON OTHER ILLNESSES : EXPECTED TO AGGRAVATE PRE-EXISTING GASTROINTESTINAL, NERVOUS SYSTEM, SKIN, LIVER & KIDNEY PROBLEMS.

LISTED CARCINOGEN : NONE **()** OSHA **(YES)** NTP **(YES)** IARC **(YES)** OTHER **(YES)**

SECTION H – EMERGENCY & FIRST AID DATA

SKIN : FLUSH WITH SOAP & WATER. AVOID RUBBING INTO THE SKIN. CONTACT PHYSICIAN IMMEDIATELY.

EYES : FLUSH WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS. CONTACT PHYSICIAN IMMEDIATELY.

INHALATION : REMOVE TO FRESH AIR. PROVIDE OXYGEN IF NECESSARY. CONTACT PHYSICIAN IMMEDIATELY.

INGESTION : IMMEDIATELY CALL POISON CONTROL OR A PHYSICIAN. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY POISON CONTROL OR EMERGENCY MEDICAL PERSONNEL. TAKE TO HOSPITAL IMMEDIATELY.

MEDICAL NOTE: AGGRESSIVE DECONTAMINATION WITH GASTRIC LAVAGE IS RECOMMENDED. IF AN X-RAY INDICATES THE PRESENCE OF ARSENIC IN THE LOWER GI TRACT, WHOLE BOWEL IRRIGATION SHOULD BE CONSIDERED. ACTIVATED CHARCOAL MAY NOT BIND SIGNIFICANT AMOUNTS BUT IS RECOMMENDED UNTIL DEFINITIVE QUANTITATIVE DATA IS AVAILABLE. FLUID REPLETION SHOULD BEGIN AS SOON AS POSSIBLE.

SECTION I - SPILL & DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

EVACUATE THE DANGER AREA. WEARING FULL PROTECTIVE EQUIPMENT (RESPIRATOR, GLOVES, GOGGLES, LAB COAT), GATHER UP CHUNKS, RODS, OR GRANULES WITH VACUUM OR UTENSILS RESERVED FOR POISONOUS SOLIDS AND PLACE IN SUITABLE CONTAINER AND SEAL. DO NOT RELEASE TO THE ENVIRONMENT. AVOID GENERATING DUST. VENTILATE THE AREA AFTER CLEANUP OF MATERIAL AND RESIDUE IS COMPLETE.

WASTE DISPOSAL INFORMATION:

SOLID WASTES SHOULD BE VITRIFIED, PLACED IN LABELED CONTAINER & BURIED IN AN EPA SUPERVISED FACILITY. ETCHING SOLUTIONS & CUTTING WASTES SHOULD BE PRECIPITATED, CEMENTED/VITRIFIED & PLACED IN METAL/PLASTIC LABELED CONTAINERS & BURIED IN EPA SUPERVISED FACILITY. PASS GAS THROUGH POTASSIUM PERMANGANATE, PRECIPITATE & TREAT AS ABOVE. WASTE MAY BE CONSIDERED HAZARDOUS DEPENDING ON LEVEL OF TOXICITY CHARACTERISTIC OF ARSENIC. SEE 40 CFR 261.24 FOR DETERMINATION.

RCRA HAZARDOUS WASTE : NO **()** YES **(**X)** **RCRA # : (****D004**)**

**** -** IF TESTED POSITIVE AS CHARACTERISTIC OF TOXICITY FOR ARSENIC

CERCLA : NO **()** YES **(X)** **RQ (**1 LB. RQ IS APPLICABLE ONLY IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASED IS LESS THAN 100 MICROMETERS OR 0.004 INCH. THIS PRODUCT FORM IS LARGER THAN 100 MICROMETERS AND HAS NO RQ IN ITS CURRENT FORM. IF AS HAZARDOUS WASTE CHARACTERISTIC OF ARSENIC, THEN RQ=1 LB.**)**

FOLLOW ALL LOCAL, STATE AND FEDERAL INFORMATION AND REGULATIONS

SECTION J - OTHER REGULATORY INFORMATION

TSCA: WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.

SARA TITLE III, SECT. 313: **LISTED (X) UNLISTED ()**

DOT REGULATED: YES: (X**)** **NO: ()** **RQ: (**N/A - PIECES ARE LARGER THAN 100 MICROMETERS IN DIAMETER**)**

IF REGULATED, PROPER SHIPPING NAME: ARSENIC **HAZARD CLASS: (**6.1**)**

IDENTIFICATION NO.: (UN1558**)** **PACKING GROUP: (**II**)** **LABEL REQUIRED: (**POISON**)**

INLAND B/L: UN1558, ARSENIC, 6.1, PACKING GROUP II, POISON

EMERGENCY RESPONSE GUIDE NO.: (152**)**

SECTION K - SPECIAL PRECAUTIONS

FOR INDUSTRIAL USE ONLY

HANDLING & STORAGE INFORMATION:

PRIOR TO WORKING WITH ARSENIC, PERSONNEL SHOULD BE TRAINED IN PROPER HANDLING & STORAGE. STORE IN ORIGINAL PACKAGING IN COOL DRY AREA. WHEN HANDLING, WEAR FULL PROTECTIVE EQUIPMENT (SEE SECTION F). PLACE INTO INERT ATMOSPHERE IMMEDIATELY. IF PROCESSING INTO INORGANIC ARSENIC COMPOUNDS, FOLLOW THE OSHA STANDARD AT 29 CFR 1910.1018. DO NOT INGEST. DO NOT INHALE DUST OR ANY PROCESSING FUMES. AVOID SKIN AND EYE CONTACT.

NOTE: MAINTENANCE PERSONNEL OF PROCESSING AND EXTRACT EQUIPMENT MUST ALSO WEAR FULL PROTECTIVE EQUIPMENT (SEE SECTION F) AND OBSERVE THE REQUIREMENTS OF THE OSHA INORGANIC ARSENIC STANDARD (29 CFR 1910.1018) AS RESIDUES MAY CONTAIN ARSENIC PARTICLES AND VARYING COMPOUNDS OF ARSENIC.

OTHER PRECAUTIONS :

MINIMUM - HAVE QUARTERLY MEDICAL CHECKS INCLUDING URINE TESTS OF PERSONNEL WORKING WITH ARSENIC OR ARSENIC COMPOUNDS. DO NOT EAT, DRINK OR SMOKE IN THE WORK AREA.

Appendix C
Soil Boring Geologic Logs

BORING LOG

Boring #: MW-2 (B-1) **PAGE # 1 0F 2**

DATE: 05/02/2012 & 05/03/2012

CLIENT: David Koptiev

SITE: 224-01 Merrick Blvd.
Queens, NY

GPS COORDINATES:
LATITUDE: 40.67808°
LONGITUDE: -73.74540°

DRILLER: Zebra Environmental Corp.

DRILLING METHOD: Geoprobe™

DEPTH DRILLED: 26 feet

DEPTH TO WATER: 19 feet

GEOLOGIC LOG

DEPTH (ft) FROM	TO	*RECOVERY (ft)*	*PID (ppm)*	*SAMPLE DESCRIPTION*
0	5	3.0	0.0	Brown fine grained sand with quartz pebbles. 6-inch thick layer of gray-brown silty clay near bottom. Soil sample collected for lab analysis at 0 to 2 feet.
5	10	4.2	0.0	Brown medium to fine grained sand with quartz pebbles.
10	15	5.0	0.0	Light brown fine grained sand with quartz pebbles.
15	20	3.3	0.0	Medium to fine grained sand with quartz pebbles and crystalline rock fragments. Approximate 6-inch layer of gray-brown silty sand at around 17 feet. Wet near bottom. Soil sample collected for lab analysis at 15 to 17 feet.

BORING LOG

Boring #: **MW-2 (B-1)**

DATE: 05/02/2012 & 05/03/2012

CLIENT: David Koptiev

SITE: 224-01 Merrick Blvd.
Queens, NY

GPS COORDINATES:
LATITUDE: 40.67808°
LONGITUDE: -73.74540°

DRILLER: Zebra Environmental Corp.

DRILLING METHOD: Geoprobe™

DEPTH DRILLED: 26 feet

DEPTH TO WATER: 19 feet

GEOLOGIC LOG

DEPTH (ft) *FROM*	*TO*	*RECOVERY (ft)*	*PID (ppm)*	*SAMPLE DESCRIPTION*
20	**25**	**2.9**	**0.0**	**Medium brown wet fine grained sand with gravel and approximately 2-inches gray-brown silty sand.**

BORING LOG

Boring #: B-2 **PAGE # 1 0F 1**

DATE: 05/02/2012 **CLIENT: David Koptiev**

SITE: 224-01 Merrick Blvd.
Queens, NY

DRILLER: Zebra Environmental Corp. **DRILLING METHOD: Geoprobe™**

DEPTH DRILLED: 25 feet **DEPTH TO WATER: 19 feet**

GEOLOGIC LOG

DEPTH (ft) FROM	TO	*RECOVERY (ft)*	*PID (ppm)*	*SAMPLE DESCRIPTION*
0	5	3.0	0.0	6-inches concrete, fine grained brown sand and fine gravel. Soil sample collected for lab analysis at 0 to 2 feet.
5	10	3.8	0.0	Brown fine grained sand, black sand and fine gravel.
10	15	4.1	0.0	Brown medium grained fine grained sand, some quartz pebbles, and fine gravel. Moist.
15	20	5.0	0.0	Brown medium to fine grained sand with quartz pebbles. Wet near bottom. Soil sample collected for lab analysis at 15 to 17 feet.
20	25	3.0	0.0	Brown medium to fine grained sand with rock fragments and quartz pebbles. Wet.

BORING LOG

Boring #: B-3 **PAGE # 1 0F 1**

DATE: 05/02/2012 **CLIENT: David Koptiev**

SITE: 224-01 Merrick Blvd.
Queens, NY

DRILLER: Zebra Environmental Corp. **DRILLING METHOD: Geoprobe™**

DEPTH DRILLED: 5 feet **DEPTH TO WATER: N/A**

GEOLOGIC LOG

DEPTH (ft)		*RECOVERY*	*PID*	*SAMPLE DESCRIPTION*
FROM	*TO*	*(ft)*	*(ppm)*	
0	5	3.3	0.0	8-inches concrete, fine grained tan to light brown sand and fine gravel. Soil sample collected for lab analysis at 0 to 2 feet.

BORING LOG

Boring #: B-4 **PAGE # 1 0F 1**

DATE: 05/02/2012 **CLIENT: David Koptiev**

SITE: 224-01 Merrick Blvd.
Queens, NY

DRILLER: Zebra Environmental Corp. **DRILLING METHOD: Geoprobe™**

DEPTH DRILLED: 5 feet **DEPTH TO WATER: N/A**

GEOLOGIC LOG

DEPTH (ft)		*RECOVERY*	*PID*	*SAMPLE DESCRIPTION*
FROM	*TO*	*(ft)*	*(ppm)*	
0	5	3.0	0.0	8-inches concrete, fine grained light brown sand and some gravel. Soil sample collected for lab analysis at 0 to 2 feet.

J.R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 402, Hauppauge, New York 11788-4300
Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: info@holzmacher.com

BORING LOG

Boring #: MW-1 (B-5) PAGE # 1 0F 1

DATE: 05/02/2012 & 05/03/2012

CLIENT: David Koptiev

SITE: 224-01 Merrick Blvd.
Queens, NY

GPS COORDINATES:
LATITUDE: 40.67795°
LONGITUDE: -73.74519°

DRILLER: Zebra Environmental Corp.

DRILLING METHOD: Geoprobe™

DEPTH DRILLED: 26 feet

DEPTH TO WATER: 19 feet

GEOLOGIC LOG

DEPTH (ft) FROM	TO	*RECOVERY (ft)*	*PID (ppm)*	*SAMPLE DESCRIPTION*
0	5	2.5	0.0	Brown Fine grained sand, fine gravel and small rock. Soil sample collected for lab analysis at 0 to 2 feet.
5	10	3.1	0.0	Brown fine grained sand and large crushed quartz.
10	15	5.0	0.0	Brown fine grained sand with quartz pebbles.
15	20	2.8	0.0	Brown fine grained grained sand with quartz pebbles and an approximate 3-inch layer of gray silty clay at around 17 feet. Wet near bottom. Soil sample collected for lab analysis at 15 to 17 feet.
20	25	2.8	0.0	Brown medium to fine grained sand with rock fragments and quartz pebbles. Wet.

J.R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 402, Hauppauge, New York 11788-4300
Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: info@holzmacher.com

BORING LOG

Boring #: MW-3 (B-6) **PAGE # 1 0F 1**

DATE: 05/02/2012 & 05/03/2012

CLIENT: David Koptiev

SITE: 224-01 Merrick Blvd.
Queens, NY

GPS COORDINATES:
LATITUDE: 40.67810°
LONGITUDE: -73.74511°

DRILLER: Zebra Environmental Corp.

DRILLING METHOD: Geoprobe™

DEPTH DRILLED: 26 feet

DEPTH TO WATER: 19 feet

GEOLOGIC LOG

DEPTH (ft) *FROM*	*TO*	*RECOVERY (ft)*	*PID (ppm)*	*SAMPLE DESCRIPTION*
0	5	2.5	0.0	Fine to medium grained light brown sand and some gravel. Soil sample collected for lab analysis at 0 to 2 feet.

J.R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 402, Hauppauge, New York 11788-4300
Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: info@holzmacher.com

Appendix D
Monitoring Well Sampling Logs

GROUNDWATER SAMPLING LOG

224-01 Merrick Blvd
Queens, NY

Well ID:	W - 1
Date:	5/17/12
Sampling Personnel:	AJS & HS
Weather:	Sunny - 70ºF

WELL INFORMATION

Well Depth (ft):	26.20
Water Level Depth (ft):	18.91
Well Diameter (in):	2

WELL WATER INFORMATION

Length of Water Column (ft):	7.29
Volume of Water in Well (gal):	1.19
Total Volume Purged (gal):	5.0
Duration of Pumping (min):	26

EVACUATION INFORMATION

Pump On: 11:20 Pump Off: 11:46

Time: / *Parameter*	11:25	11:30	11:35	11:40				
DO (mg/L)	1.45	2.97	3.04	3.06				
Temperature (°C)	17.43	17.25	17.20	17.24				
pH	6.25	6.10	6.07	6.03				
Cond (umho's/cm)	330	260	265	263				
Turbidity (NTU)	223.0	110.0	98.0	99.0				

GROUNDWATER SAMPLING LOG

224-01 Merrick Blvd
Queens, NY

Well ID:	W-2
Date:	5/17/12
Sampling Personnel:	AJS & HS
Weather:	Sunny - 70ºF

WELL INFORMATION

Well Depth (ft):	26.20
Water Level Depth (ft):	21.78
Well Diameter (in):	2

WELL WATER INFORMATION

Length of Water Column (ft):	4.42
Volume of Water in Well (gal):	0.72
Total Volume Purged (gal):	2.5
Duration of Pumping (min):	26

EVACUATION INFORMATION

Pump On: 11:55 Pump Off: 12:21

Time: / *Parameter*	12:00	12:05	12:10	12:15				
DO (mg/L)	1.53	2.10	2.16	2.22				
Temperature (°C)	18.61	18.39	18.42	18.40				
pH	5.82	5.64	5.60	5.62				
Cond (umho's/cm)	1,370	1,100	1,090	1,090				
Turbidity (NTU)	382.0	63.7	60.8	57.4				

GROUNDWATER SAMPLING LOG

224-01 Merrick Blvd
Queens, NY

Well ID:	W - 3
Date:	5/17/12
Sampling Personnel:	AJS & HS
Weather:	Sunny - 70ºF

WELL INFORMATION

Well Depth (ft):	26.20
Water Level Depth (ft):	21.90
Well Diameter (in):	2

WELL WATER INFORMATION

Length of Water Column (ft):	4.30
Volume of Water in Well (gal):	0.70
Total Volume Purged (gal):	2.50
Duration of Pumping (min):	26

EVACUATION INFORMATION

Pump On: 12:35 Pump Off: 13:01

Time: / *Parameter*	12:40	12:45	12:50	12:55				
DO (mg/L)	4.09	5.65	5.69	5.72				
Temperature (°C)	17.07	17.11	17.23	17.44				
pH	5.84	5.86	5.86	5.86				
Cond (umho's/cm)	296	260	258	259				
Turbidity (NTU)	829.0	140.0	137.0	132.0				

Appendix E
Laboratory Data Deliverables

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Thursday, May 10, 2012

Jim DeMartinis
J.R. Holzmacher P.E. LLC
300 Wheeler Road, Suite 402
Hauppauge, NY 11788

TEL: (631) 234-2220
FAX (631) 234-2221

RE: 224-01 Merrick Blvd., Queens, NY

Order No.: 1205020

Dear Jim DeMartinis:

American Analytical Laboratories, LLC. received 9 sample(s) on 5/2/2012 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 96 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *10-May-12*

CLIENT: J.R. Holzmacher P.E. LLC
Project: 224-01 Merrick Blvd., Queens, NY
Lab Order: 1205020

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1205020-01A	B-2 (0-2')	5/2/2012 9:40:00 AM	5/2/2012
1205020-01B	B-2 (0-2')	5/2/2012 9:40:00 AM	5/2/2012
1205020-02A	B-2 (15-17')	5/2/2012 9:50:00 AM	5/2/2012
1205020-02B	B-2 (15-17')	5/2/2012 9:50:00 AM	5/2/2012
1205020-03A	B-5 (0-2')	5/2/2012 9:30:00 AM	5/2/2012
1205020-03B	B-5 (0-2')	5/2/2012 9:30:00 AM	5/2/2012
1205020-04A	B-5 (15-17')	5/2/2012 10:20:00 AM	5/2/2012
1205020-04B	B-5 (15-17')	5/2/2012 10:20:00 AM	5/2/2012
1205020-05A	B-3 (0-2')	5/2/2012 11:15:00 AM	5/2/2012
1205020-05B	B-3 (0-2')	5/2/2012 11:15:00 AM	5/2/2012
1205020-06A	B-1 (0-2')	5/2/2012 11:50:00 AM	5/2/2012
1205020-06B	B-1 (0-2')	5/2/2012 11:50:00 AM	5/2/2012
1205020-07A	B-1 (15-17')	5/2/2012 12:10:00 PM	5/2/2012
1205020-07B	B-1 (15-17')	5/2/2012 12:10:00 PM	5/2/2012
1205020-08A	B-4 (0-2')	5/2/2012 1:00:00 PM	5/2/2012
1205020-08B	B-4 (0-2')	5/2/2012 1:00:00 PM	5/2/2012
1205020-09A	B-6 (0-2')	5/2/2012 1:40:00 PM	5/2/2012
1205020-09B	B-6 (0-2')	5/2/2012 1:40:00 PM	5/2/2012

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	1141[illegible]
CTDOH	PH-020[illegible]
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: S.R. Holzmacher

CONTACT: Jim DeMartinis

SAMPLER (SIGNATURE): Heather Sonnenberg

SAMPLER NAME (PRINT): Heather Sonnenberg

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

TEMPERATURE (° C): 4.1

PROJECT LOCATION: 224-01 Merrick Blvd., Queens, NY

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: EPA method 8260	EPA method 8270	Pesticides 8081	PCBs 8082	TAL-Metals 6010
120520-01AB	S	2	5-2-12	9:40 AM	B-2 (0-2')	✓	✓	✓	✓	✓
02AB	S	2		9:50 AM	B-2 (15-17')	✓	✓	✓	✓	✓
03AB	S	2		9:30 AM	B-5 (0-2')	✓	✓	✓	✓	✓
04AB	S	2		10:20 AM	B-5 (15-17')	✓	✓	✓	✓	✓
05AB	S	2		11:15 AM	B-3 (0-2')	✓	✓	✓	✓	✓
06AB	S	2		11[illegible] pm	B-1 (0-2')	✓	✓	✓	✓	✓
07AB	S	2		12[illegible] pm	B-1 (15-17')	✓	✓	✓	✓	✓
08AB	S	2		1 pm	B-4 (0-2')	✓	✓	✓	✓	✓
09AB	S	2		1[illegible] pm	B-6 (0-2')	✓	✓	✓	✓	✓

COMMENTS / INSTRUCTIONS: Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: STANDARD ☑ (7-10 business days) STAT ☐ BY / /

E-MAIL ADDRESS FOR RESULTS:

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Heather Sonnenberg	5-2-12 3pm	Heather Sonnenberg	C Ferrara	5/2/12 1500	Cate Ferrara
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **HOLZMACHER** Date and Time Receive **5/2/2012 2:53:53 PM**

Work Order Numbe **1205020** RcptNo: **1** Received by **CF**

COC_ID: CoolerID:

Checklist completed by Signature 5/2/12 Date Reviewed by Initials 5/2/12 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1,1-Trichloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1,2,2-Tetrachloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1,2-Trichloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1-Dichloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1-Dichloroethene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,1-Dichloropropene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2,3-Trichlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2,3-Trichloropropane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2,4,5-Tetramethylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2,4-Trichlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2,4-Trimethylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2-Dibromo-3-chloropropane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2-Dibromoethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2-Dichlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2-Dichloroethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,2-Dichloropropane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,3,5-Trimethylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,3-Dichlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,3-dichloropropane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,4-Dichlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
1,4-Dioxane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
2,2-Dichloropropane	U	0.58	5.8	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
2-Butanone	U	1.73	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
2-Chloroethyl vinyl ether	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
2-Chlorotoluene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
2-Hexanone	U	1.73	5.8	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
2-Propanol	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
4-Chlorotoluene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
4-Isopropyltoluene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
4-Methyl-2-pentanone	U	1.73	5.8	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
Acetone	U	1.73	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-01A

Client Sample ID: B-2 (0-2')
Collection Date: 5/2/2012 9:40:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.88	12	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
Acrylonitrile	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Benzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Bromobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Bromochloromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Bromodichloromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Bromoform	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Bromomethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Carbon disulfide	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Carbon tetrachloride	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Chlorobenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Chlorodifluoromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Chloroethane	U	0.58	5.8	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
Chloroform	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Chloromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
cis-1,2-Dichloroethene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
cis-1,3-Dichloropropene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Dibromochloromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Dibromomethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Dichlorodifluoromethane	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Diisopropyl ether	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Ethanol	U	2.88	12		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Ethyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Ethylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Freon-114	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Hexachlorobutadiene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Isopropyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Isopropylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
m,p-Xylene	U	1.15	12		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Methyl Acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Methyl tert-butyl ether	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Methylene chloride	12	0.58	5.8	B	µg/Kg-dry	1	5/5/2012 4:28:00 AM
n-Amyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
n-Butyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
n-Butylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
n-Propyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
n-Propylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
o-Xylene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
p-Diethylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
p-Ethyltoluene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
sec-Butylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Styrene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
t-Butyl alcohol	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
tert-Butylbenzene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Tetrachloroethene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Toluene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
trans-1,2-Dichloroethene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
trans-1,3-Dichloropropene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Trichloroethene	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Trichlorofluoromethane	U	0.58	5.8	C	µg/Kg-dry	1	5/5/2012 4:28:00 AM
Vinyl acetate	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Vinyl chloride	U	0.58	5.8		µg/Kg-dry	1	5/5/2012 4:28:00 AM
Surr: 4-Bromofluorobenzene	90.4	0	42-133		%REC	1	5/5/2012 4:28:00 AM
Surr: Dibromofluoromethane	99.8	0	50-133		%REC	1	5/5/2012 4:28:00 AM
Surr: Toluene-d8	94.2	0	53-130		%REC	1	5/5/2012 4:28:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.005	0.00967		mg/Kg-dry	1	5/9/2012 1:51:28 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1221	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1232	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1242	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1248	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1254	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1260	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1262	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Aroclor 1268	U	1.28	2.6		µg/Kg-dry	1	5/8/2012 9:07:00 PM
Surr: TCX	91.7	0	17-151		%REC	1	5/8/2012 9:07:00 PM
Surr: DCB	103	0	16-152		%REC	1	5/8/2012 9:07:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
4,4´-DDE	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
4,4´-DDT	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Aldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
alpha-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
beta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Chlordane	U	0.26	1.0		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Chlorobenzilate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
DBCP	U	0.20	0.82		µg/Kg-dry	1	5/8/2012 2:42:00 PM
delta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Dieldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endosulfan I	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endosulfan II	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endosulfan sulfate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endrin aldehyde	U	0.20	0.82		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Endrin ketone	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
gamma-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Heptachlor epoxide	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Hexachlorobenzene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Hexachlorocyclopentadiene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Methoxychlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Toxaphene	U	2.56	10		µg/Kg-dry	1	5/8/2012 2:42:00 PM
Surr: DCB	92.8	0	23-157		%REC	1	5/8/2012 2:42:00 PM
Surr: TCX	74.4	0	21-151		%REC	1	5/8/2012 2:42:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	3.38	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1480	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Antimony	U	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Arsenic	0.682	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Barium	6.08	0.19	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Beryllium	U	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Cadmium	U	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Calcium	222	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Chromium	4.52	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Cobalt	U	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Copper	3.70	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Iron	3450	0.19	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Lead	1.70	0.19	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Magnesium	582	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Manganese	74.8	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Nickel	7.20	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Potassium	249	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Selenium	U	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Silver	U	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Sodium	22.6	0.19	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Thallium	U	0.29	0.485		mg/Kg-dry	1	5/3/2012 12:36:13 PM
Vanadium	5.45	0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	6.32		0.1	0.388		mg/Kg-dry	1	5/3/2012 12:36:13 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
1,2-Dichlorobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
1,3-Dichlorobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
1,4-Dichlorobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4,5-Trichlorophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4,6-Trichlorophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4-Dichlorophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4-Dimethylphenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4-Dinitrophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,4-Dinitrotoluene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2,6-Dinitrotoluene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Chloronaphthalene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Chlorophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Methylnaphthalene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Methylphenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Nitroaniline		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
2-Nitrophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
3,3´-Dichlorobenzidine		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
3+4-Methylphenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
3-Nitroaniline		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4,6-Dinitro-2-methylphenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Bromophenyl phenyl ether		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Chloro-3-methylphenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Chloroaniline		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Chlorophenyl phenyl ether		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Nitroaniline		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
4-Nitrophenol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Acenaphthene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Acenaphthylene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Acetophenone		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Anthracene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Atrazine		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Azobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzaldehyde		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzidine		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzo(a)anthracene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzo(a)pyrene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzo(b)fluoranthene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzo(g,h,i)perylene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzo(k)fluoranthene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzoic acid		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Benzyl alcohol		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Biphenyl		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Bis(2-chloroethoxy)methane		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Bis(2-chloroethyl)ether		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Bis(2-chloroisopropyl)ether		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Bis(2-ethylhexyl)phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Butyl benzyl phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Caprolactam		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Carbazole		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Chrysene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Dibenzo(a,h)anthracene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Dibenzofuran		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Diethyl phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Dimethyl phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Di-n-butyl phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Di-n-octyl phthalate		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Fluoranthene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Fluorene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Hexachlorobenzene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Hexachlorobutadiene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM
Hexachlorocyclopentadiene		U	25.6	260		µg/Kg-dry	1	5/7/2012 9:13:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:40:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-01B		

Certificate of Results

Analyses	Sample Result	Qual	LOD	LOQ	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**	**SW3550C**		Analyst: **LDS**
Hexachloroethane		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Indeno(1,2,3-c,d)pyrene		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Isophorone		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Naphthalene		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Nitrobenzene		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
N-Nitrosodimethylamine		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
N-Nitrosodi-n-propylamine		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
N-Nitrosodiphenylamine		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Parathion		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Pentachlorophenol		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Phenanthrene		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Phenol		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Pyrene		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Pyridine		U	25.6	260	µg/Kg-dry	1	5/7/2012 9:13:00 PM
Surr: 2,4,6-Tribromophenol	46.7		0	21-119	%REC	1	5/7/2012 9:13:00 PM
Surr: 2-Fluorobiphenyl	102		0	21-117	%REC	1	5/7/2012 9:13:00 PM
Surr: 2-Fluorophenol	30.1		0	11-105	%REC	1	5/7/2012 9:13:00 PM
Surr: 4-Terphenyl-d14	127		0	21-132	%REC	1	5/7/2012 9:13:00 PM
Surr: Nitrobenzene-d5	75.4		0	18-116	%REC	1	5/7/2012 9:13:00 PM
Surr: Phenol-d6	44.8		0	12-110	%REC	1	5/7/2012 9:13:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1,1-Trichloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1,2,2-Tetrachloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1,2-Trichloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1-Dichloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1-Dichloroethene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,1-Dichloropropene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2,3-Trichlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2,3-Trichloropropane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2,4,5-Tetramethylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2,4-Trichlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2,4-Trimethylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2-Dibromo-3-chloropropane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2-Dibromoethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2-Dichlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2-Dichloroethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,2-Dichloropropane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,3,5-Trimethylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,3-Dichlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,3-dichloropropane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,4-Dichlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
1,4-Dioxane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
2,2-Dichloropropane	U	0.62	6.2	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
2-Butanone	U	1.87	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
2-Chloroethyl vinyl ether	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
2-Chlorotoluene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
2-Hexanone	U	1.87	6.2	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
2-Propanol	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
4-Chlorotoluene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
4-Isopropyltoluene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
4-Methyl-2-pentanone	U	1.87	6.2	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
Acetone	U	1.87	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	3.12	12	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
Acrylonitrile	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Benzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Bromobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Bromochloromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Bromodichloromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Bromoform	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Bromomethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Carbon disulfide	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Carbon tetrachloride	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Chlorobenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Chlorodifluoromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Chloroethane	U	0.62	6.2	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
Chloroform	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Chloromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
cis-1,2-Dichloroethene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
cis-1,3-Dichloropropene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Dibromochloromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Dibromomethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Dichlorodifluoromethane	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Diisopropyl ether	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Ethanol	U	3.12	12		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Ethyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Ethylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Freon-114	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Hexachlorobutadiene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Isopropyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Isopropylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
m,p-Xylene	U	1.25	12		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Methyl Acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Methyl tert-butyl ether	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Methylene chloride	13	0.62	6.2	B	µg/Kg-dry	1	5/5/2012 5:01:00 AM
n-Amyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Naphthalene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
n-Butyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
n-Butylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
n-Propyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
n-Propylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
o-Xylene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
p-Diethylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
p-Ethyltoluene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
sec-Butylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Styrene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
t-Butyl alcohol	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
tert-Butylbenzene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Tetrachloroethene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Toluene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
trans-1,2-Dichloroethene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
trans-1,3-Dichloropropene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Trichloroethene	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Trichlorofluoromethane	U	0.62	6.2	C	µg/Kg-dry	1	5/5/2012 5:01:00 AM
Vinyl acetate	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Vinyl chloride	U	0.62	6.2		µg/Kg-dry	1	5/5/2012 5:01:00 AM
Surr: 4-Bromofluorobenzene	91.7	0	42-133		%REC	1	5/5/2012 5:01:00 AM
Surr: Dibromofluoromethane	101	0	50-133		%REC	1	5/5/2012 5:01:00 AM
Surr: Toluene-d8	94.6	0	53-130		%REC	1	5/5/2012 5:01:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.004	0.00841		mg/Kg-dry	1	5/9/2012 1:53:36 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1221	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1232	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1242	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1248	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1254	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1260	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1262	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Aroclor 1268	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:20:00 PM
Surr: TCX	108	0	17-151		%REC	1	5/8/2012 10:20:00 PM
Surr: DCB	119	0	16-152		%REC	1	5/8/2012 10:20:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4'-DDD	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
4,4'-DDE	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
4,4'-DDT	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Aldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
alpha-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
beta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Chlordane	U	0.25	1.0		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Chlorobenzilate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
DBCP	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 2:56:00 PM
delta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Dieldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endosulfan I	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endosulfan II	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endosulfan sulfate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endrin aldehyde	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Endrin ketone	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
gamma-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-02B

Client Sample ID: B-2 (15-17')
Collection Date: 5/2/2012 9:50:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Heptachlor epoxide	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Hexachlorobenzene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Hexachlorocyclopentadiene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Methoxychlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Toxaphene	U	2.54	10		µg/Kg-dry	1	5/8/2012 2:56:00 PM
Surr: DCB	110	0	23-157		%REC	1	5/8/2012 2:56:00 PM
Surr: TCX	96.1	0	21-151		%REC	1	5/8/2012 2:56:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	4.13	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1520	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Antimony	U	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Arsenic	0.507	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Barium	11.2	0.20	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Beryllium	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Cadmium	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Calcium	281	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Chromium	8.08	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Cobalt	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Copper	4.36	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Iron	3240	0.20	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Lead	1.43	0.20	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Magnesium	597	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Manganese	104	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Nickel	7.39	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Potassium	434	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Selenium	U	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Silver	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Sodium	28.6	0.20	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Thallium	U	0.30	0.503		mg/Kg-dry	1	5/3/2012 12:38:15 PM
Vanadium	4.87	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	6.70		0.10	0.403		mg/Kg-dry	1	5/3/2012 12:38:15 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
1,2-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
1,3-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
1,4-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4,5-Trichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4,6-Trichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4-Dichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4-Dimethylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4-Dinitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,4-Dinitrotoluene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2,6-Dinitrotoluene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Chloronaphthalene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Chlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Methylnaphthalene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
2-Nitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
3,3´-Dichlorobenzidine		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
3+4-Methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
3-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4,6-Dinitro-2-methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Bromophenyl phenyl ether		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Chloro-3-methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Chloroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Chlorophenyl phenyl ether		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
4-Nitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Acenaphthene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Acenaphthylene		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Acetophenone		U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Anthracene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Atrazine	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Azobenzene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzaldehyde	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzidine	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzo(a)anthracene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzo(a)pyrene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzo(b)fluoranthene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzo(g,h,i)perylene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzo(k)fluoranthene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzoic acid	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Benzyl alcohol	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Biphenyl	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Bis(2-chloroethoxy)methane	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Bis(2-chloroethyl)ether	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Bis(2-chloroisopropyl)ether	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Bis(2-ethylhexyl)phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Butyl benzyl phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Caprolactam	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Carbazole	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Chrysene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Dibenzo(a,h)anthracene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Dibenzofuran	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Diethyl phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Dimethyl phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Di-n-butyl phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Di-n-octyl phthalate	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Fluoranthene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Fluorene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Hexachlorobenzene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Hexachlorobutadiene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Hexachlorocyclopentadiene	U		25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-2 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Indeno(1,2,3-c,d)pyrene	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Isophorone	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Naphthalene	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Nitrobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
N-Nitrosodimethylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
N-Nitrosodi-n-propylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
N-Nitrosodiphenylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Parathion	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Pentachlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Phenanthrene	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Phenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Pyrene	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Pyridine	U	25.4	250		µg/Kg-dry	1	5/8/2012 5:03:00 PM
Surr: 2,4,6-Tribromophenol	99.3	0	21-119		%REC	1	5/8/2012 5:03:00 PM
Surr: 2-Fluorobiphenyl	98.6	0	21-117		%REC	1	5/8/2012 5:03:00 PM
Surr: 2-Fluorophenol	54.6	0	11-105		%REC	1	5/8/2012 5:03:00 PM
Surr: 4-Terphenyl-d14	109	0	21-132		%REC	1	5/8/2012 5:03:00 PM
Surr: Nitrobenzene-d5	73.6	0	18-116		%REC	1	5/8/2012 5:03:00 PM
Surr: Phenol-d6	57.6	0	12-110		%REC	1	5/8/2012 5:03:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1,1-Trichloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1,2,2-Tetrachloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1,2-Trichloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1-Dichloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1-Dichloroethene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,1-Dichloropropene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2,3-Trichlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2,3-Trichloropropane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2,4,5-Tetramethylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2,4-Trichlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2,4-Trimethylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2-Dibromo-3-chloropropane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2-Dibromoethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2-Dichlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2-Dichloroethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,2-Dichloropropane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,3,5-Trimethylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,3-Dichlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,3-dichloropropane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,4-Dichlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
1,4-Dioxane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
2,2-Dichloropropane	U	0.51	5.1	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
2-Butanone	U	1.54	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
2-Chloroethyl vinyl ether	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
2-Chlorotoluene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
2-Hexanone	U	1.54	5.1	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
2-Propanol	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
4-Chlorotoluene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
4-Isopropyltoluene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
4-Methyl-2-pentanone	U	1.54	5.1	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
Acetone	U	1.54	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.56	10	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
Acrylonitrile	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Benzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Bromobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Bromochloromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Bromodichloromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Bromoform	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Bromomethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Carbon disulfide	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Carbon tetrachloride	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Chlorobenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Chlorodifluoromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Chloroethane	U	0.51	5.1	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
Chloroform	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Chloromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
cis-1,2-Dichloroethene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
cis-1,3-Dichloropropene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Dibromochloromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Dibromomethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Dichlorodifluoromethane	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Diisopropyl ether	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Ethanol	U	2.56	10		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Ethyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Ethylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Freon-114	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Hexachlorobutadiene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Isopropyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Isopropylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
m,p-Xylene	U	1.02	10		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Methyl Acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Methyl tert-butyl ether	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Methylene chloride	11	0.51	5.1	B	µg/Kg-dry	1	5/5/2012 5:33:00 AM
n-Amyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Naphthalene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
n-Butyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
n-Butylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
n-Propyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
n-Propylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
o-Xylene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
p-Diethylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
p-Ethyltoluene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
sec-Butylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Styrene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
t-Butyl alcohol	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
tert-Butylbenzene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Tetrachloroethene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Toluene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
trans-1,2-Dichloroethene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
trans-1,3-Dichloropropene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Trichloroethene	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Trichlorofluoromethane	U	0.51	5.1	C	µg/Kg-dry	1	5/5/2012 5:33:00 AM
Vinyl acetate	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Vinyl chloride	U	0.51	5.1		µg/Kg-dry	1	5/5/2012 5:33:00 AM
Surr: 4-Bromofluorobenzene	85.4	0	42-133		%REC	1	5/5/2012 5:33:00 AM
Surr: Dibromofluoromethane	100	0	50-133		%REC	1	5/5/2012 5:33:00 AM
Surr: Toluene-d8	91.6	0	53-130		%REC	1	5/5/2012 5:33:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.0103	0.004	0.00894		mg/Kg-dry	1	5/9/2012 1:55:44 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1221	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1232	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1242	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1248	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1254	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1260	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1262	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Aroclor 1268	U	1.27	2.5		µg/Kg-dry	1	5/8/2012 10:44:00 PM
Surr: TCX	105	0	17-151		%REC	1	5/8/2012 10:44:00 PM
Surr: DCB	105	0	16-152		%REC	1	5/8/2012 10:44:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
4,4´-DDE	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
4,4´-DDT	0.91	0.10	0.41	CP	µg/Kg-dry	1	5/8/2012 3:10:00 PM
Aldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
alpha-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
beta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Chlordane	U	0.25	1.0		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Chlorobenzilate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
DBCP	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 3:10:00 PM
delta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Dieldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endosulfan I	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endosulfan II	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endosulfan sulfate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endrin aldehyde	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Endrin ketone	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
gamma-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Heptachlor epoxide	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Hexachlorobenzene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Hexachlorocyclopentadiene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Methoxychlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Toxaphene	U	2.54	10		µg/Kg-dry	1	5/8/2012 3:10:00 PM
Surr: DCB	79.8	0	23-157		%REC	1	5/8/2012 3:10:00 PM
Surr: TCX	89.9	0	21-151		%REC	1	5/8/2012 3:10:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	2.71	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1770	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Antimony	U	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Arsenic	1.45	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Barium	13.7	0.20	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Beryllium	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Cadmium	0.108	0.10	0.403	J	mg/Kg-dry	1	5/3/2012 12:40:16 PM
Calcium	2100	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Chromium	7.24	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Cobalt	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Copper	7.67	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Iron	11600	2.02	4.03		mg/Kg-dry	10	5/3/2012 2:47:17 PM
Lead	11.2	0.20	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Magnesium	650	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Manganese	105	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Nickel	5.57	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Potassium	344	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Selenium	U	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Silver	U	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Sodium	164	0.20	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Thallium	U	0.30	0.504		mg/Kg-dry	1	5/3/2012 12:40:16 PM
Vanadium	7.70	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS			**SW6010C**	**SW3050B**			Analyst: **JP**
Zinc	24.8	0.10	0.403		mg/Kg-dry	1	5/3/2012 12:40:16 PM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**	**SW3550C**			Analyst: **LDS**
1,2,4-Trichlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
1,2-Dichlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
1,3-Dichlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
1,4-Dichlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4,5-Trichlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4,6-Trichlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4-Dichlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4-Dimethylphenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4-Dinitrophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,4-Dinitrotoluene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2,6-Dinitrotoluene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Chloronaphthalene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Chlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Methylnaphthalene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Methylphenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Nitroaniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
2-Nitrophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
3,3´-Dichlorobenzidine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
3+4-Methylphenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
3-Nitroaniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4,6-Dinitro-2-methylphenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Bromophenyl phenyl ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Chloro-3-methylphenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Chloroaniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Chlorophenyl phenyl ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Nitroaniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
4-Nitrophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Acenaphthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Acenaphthylene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Acetophenone	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Atrazine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Azobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzaldehyde	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzidine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzo(a)anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzo(a)pyrene	28	25.4	250	J	µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzo(b)fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzo(g,h,i)perylene	71	25.4	250	J	µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzo(k)fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzoic acid	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Benzyl alcohol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Biphenyl	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Bis(2-chloroethoxy)methane	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Bis(2-chloroethyl)ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Bis(2-chloroisopropyl)ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Bis(2-ethylhexyl)phthalate	890	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Butyl benzyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Caprolactam	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Carbazole	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Chrysene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Dibenzo(a,h)anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Dibenzofuran	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Diethyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Dimethyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Di-n-butyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Di-n-octyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Fluorene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Hexachlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Hexachlorobutadiene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Hexachlorocyclopentadiene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 9:30:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Indeno(1,2,3-c,d)pyrene	37	25.4	250	J	µg/Kg-dry	1	5/8/2012 4:39:00 PM
Isophorone	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Naphthalene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Nitrobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
N-Nitrosodimethylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
N-Nitrosodi-n-propylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
N-Nitrosodiphenylamine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Parathion	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Pentachlorophenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Phenanthrene	33	25.4	250	J	µg/Kg-dry	1	5/8/2012 4:39:00 PM
Phenol	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Pyrene	57	25.4	250	J	µg/Kg-dry	1	5/8/2012 4:39:00 PM
Pyridine	U	25.4	250		µg/Kg-dry	1	5/8/2012 4:39:00 PM
Surr: 2,4,6-Tribromophenol	98.5	0	21-119		%REC	1	5/8/2012 4:39:00 PM
Surr: 2-Fluorobiphenyl	94.7	0	21-117		%REC	1	5/8/2012 4:39:00 PM
Surr: 2-Fluorophenol	57.3	0	11-105		%REC	1	5/8/2012 4:39:00 PM
Surr: 4-Terphenyl-d14	112	0	21-132		%REC	1	5/8/2012 4:39:00 PM
Surr: Nitrobenzene-d5	71.6	0	18-116		%REC	1	5/8/2012 4:39:00 PM
Surr: Phenol-d6	75.5	0	12-110		%REC	1	5/8/2012 4:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1,1-Trichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1,2,2-Tetrachloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1,2-Trichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1-Dichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,1-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2,3-Trichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2,3-Trichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2,4,5-Tetramethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2,4-Trichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2,4-Trimethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2-Dibromo-3-chloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2-Dibromoethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2-Dichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,2-Dichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,3,5-Trimethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,3-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,3-dichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,4-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
1,4-Dioxane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
2,2-Dichloropropane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
2-Butanone	U	1.6	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
2-Chloroethyl vinyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
2-Chlorotoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
2-Hexanone	U	1.6	5.3	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
2-Propanol	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
4-Chlorotoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
4-Isopropyltoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
4-Methyl-2-pentanone	U	1.6	5.3	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
Acetone	U	1.6	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.66	11	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
Acrylonitrile	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Benzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Bromobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Bromochloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Bromodichloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Bromoform	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Bromomethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Carbon disulfide	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Carbon tetrachloride	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Chlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Chlorodifluoromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Chloroethane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
Chloroform	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Chloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
cis-1,2-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
cis-1,3-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Dibromochloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Dibromomethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Dichlorodifluoromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Diisopropyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Ethanol	U	2.66	11		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Ethyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Ethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Freon-114	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Hexachlorobutadiene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Isopropyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Isopropylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
m,p-Xylene	U	1.07	11		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Methyl Acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Methyl tert-butyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Methylene chloride	13	0.53	5.3	B	µg/Kg-dry	1	5/5/2012 6:07:00 AM
n-Amyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Naphthalene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
n-Butyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
n-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
n-Propyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
n-Propylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
o-Xylene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
p-Diethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
p-Ethyltoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
sec-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Styrene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
t-Butyl alcohol	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
tert-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Tetrachloroethene	17	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Toluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
trans-1,2-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
trans-1,3-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Trichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Trichlorofluoromethane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 6:07:00 AM
Vinyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Vinyl chloride	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 6:07:00 AM
Surr: 4-Bromofluorobenzene	75.6	0	42-133		%REC	1	5/5/2012 6:07:00 AM
Surr: Dibromofluoromethane	104	0	50-133		%REC	1	5/5/2012 6:07:00 AM
Surr: Toluene-d8	87.7	0	53-130		%REC	1	5/5/2012 6:07:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.005	0.0101		mg/Kg-dry	1	5/9/2012 1:57:52 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1221	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1232	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1242	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1248	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1254	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1260	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1262	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Aroclor 1268	U	1.31	2.6		µg/Kg-dry	1	5/8/2012 11:08:00 PM
Surr: TCX	113	0	17-151		%REC	1	5/8/2012 11:08:00 PM
Surr: DCB	123	0	16-152		%REC	1	5/8/2012 11:08:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
4,4´-DDE	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
4,4´-DDT	0.65	0.10	0.42	C	µg/Kg-dry	1	5/8/2012 7:14:00 PM
Aldrin	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
alpha-BHC	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
beta-BHC	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Chlordane	U	0.26	1.0		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Chlorobenzilate	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
DBCP	U	0.21	0.84		µg/Kg-dry	1	5/8/2012 7:14:00 PM
delta-BHC	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Dieldrin	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endosulfan I	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endosulfan II	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endosulfan sulfate	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endrin	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endrin aldehyde	U	0.21	0.84		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Endrin ketone	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
gamma-BHC	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-04B

Client Sample ID: B-5 (15-17')
Collection Date: 5/2/2012 10:20:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Heptachlor epoxide	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Hexachlorobenzene	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Hexachlorocyclopentadiene	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Methoxychlor	U	0.10	0.42		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Toxaphene	U	2.62	10		µg/Kg-dry	1	5/8/2012 7:14:00 PM
Surr: DCB	109	0	23-157		%REC	1	5/8/2012 7:14:00 PM
Surr: TCX	90.2	0	21-151		%REC	1	5/8/2012 7:14:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	6.30	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1640	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Antimony	U	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Arsenic	1.14	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Barium	8.39	0.21	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Beryllium	U	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Cadmium	U	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Calcium	157	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Chromium	9.22	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Cobalt	U	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Copper	5.06	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Iron	3830	0.21	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Lead	2.00	0.21	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Magnesium	445	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Manganese	41.1	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Nickel	6.04	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Potassium	355	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Selenium	U	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Silver	U	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Sodium	42.6	0.21	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Thallium	U	0.32	0.534		mg/Kg-dry	1	5/3/2012 12:42:18 PM
Vanadium	9.12	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-04B

Client Sample ID: B-5 (15-17')
Collection Date: 5/2/2012 10:20:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	11.0	0.11	0.427		mg/Kg-dry	1	5/3/2012 12:42:18 PM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
1,2-Dichlorobenzene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
1,3-Dichlorobenzene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
1,4-Dichlorobenzene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4,5-Trichlorophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4,6-Trichlorophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4-Dichlorophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4-Dimethylphenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4-Dinitrophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,4-Dinitrotoluene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2,6-Dinitrotoluene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Chloronaphthalene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Chlorophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Methylnaphthalene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Methylphenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Nitroaniline	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
2-Nitrophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
3,3'-Dichlorobenzidine	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
3+4-Methylphenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
3-Nitroaniline	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4,6-Dinitro-2-methylphenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Bromophenyl phenyl ether	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Chloro-3-methylphenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Chloroaniline	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Chlorophenyl phenyl ether	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Nitroaniline	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
4-Nitrophenol	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Acenaphthene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Acenaphthylene	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Acetophenone	U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**	**SW3550C**			Analyst: **LDS**
Aniline		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Anthracene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Atrazine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Azobenzene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzaldehyde		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzidine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzo(a)anthracene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzo(a)pyrene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzo(b)fluoranthene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzo(g,h,i)perylene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzo(k)fluoranthene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzoic acid		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Benzyl alcohol		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Biphenyl		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Bis(2-chloroethoxy)methane		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Bis(2-chloroethyl)ether		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Bis(2-chloroisopropyl)ether		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Bis(2-ethylhexyl)phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Butyl benzyl phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Caprolactam		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Carbazole		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Chrysene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Dibenzo(a,h)anthracene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Dibenzofuran		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Diethyl phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Dimethyl phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Di-n-butyl phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Di-n-octyl phthalate		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Fluoranthene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Fluorene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Hexachlorobenzene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Hexachlorobutadiene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Hexachlorocyclopentadiene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-5 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 10:20:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-04B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Indeno(1,2,3-c,d)pyrene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Isophorone		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Naphthalene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Nitrobenzene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
N-Nitrosodimethylamine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
N-Nitrosodi-n-propylamine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
N-Nitrosodiphenylamine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Parathion		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Pentachlorophenol		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Phenanthrene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Phenol		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Pyrene		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Pyridine		U	26.2	260		µg/Kg-dry	1	5/8/2012 4:14:00 PM
Surr: 2,4,6-Tribromophenol	100		0	21-119		%REC	1	5/8/2012 4:14:00 PM
Surr: 2-Fluorobiphenyl	108		0	21-117		%REC	1	5/8/2012 4:14:00 PM
Surr: 2-Fluorophenol	45.4		0	11-105		%REC	1	5/8/2012 4:14:00 PM
Surr: 4-Terphenyl-d14	99.4		0	21-132		%REC	1	5/8/2012 4:14:00 PM
Surr: Nitrobenzene-d5	77.4		0	18-116		%REC	1	5/8/2012 4:14:00 PM
Surr: Phenol-d6	53.2		0	12-110		%REC	1	5/8/2012 4:14:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-05A

Client Sample ID: B-3 (0-2')
Collection Date: 5/2/2012 11:15:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1,1-Trichloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1,2,2-Tetrachloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1,2-Trichloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1-Dichloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1-Dichloroethene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,1-Dichloropropene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2,3-Trichlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2,3-Trichloropropane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2,4,5-Tetramethylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2,4-Trichlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2,4-Trimethylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2-Dibromo-3-chloropropane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2-Dibromoethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2-Dichlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2-Dichloroethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,2-Dichloropropane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,3,5-Trimethylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,3-Dichlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,3-dichloropropane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,4-Dichlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
1,4-Dioxane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
2,2-Dichloropropane	U	0.47	4.7	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
2-Butanone	U	1.40	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
2-Chloroethyl vinyl ether	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
2-Chlorotoluene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
2-Hexanone	U	1.40	4.7	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
2-Propanol	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
4-Chlorotoluene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
4-Isopropyltoluene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
4-Methyl-2-pentanone	U	1.40	4.7	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
Acetone	U	1.40	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.34	9.3	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
Acrylonitrile	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Benzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Bromobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Bromochloromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Bromodichloromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Bromoform	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Bromomethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Carbon disulfide	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Carbon tetrachloride	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Chlorobenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Chlorodifluoromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Chloroethane	U	0.47	4.7	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
Chloroform	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Chloromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
cis-1,2-Dichloroethene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
cis-1,3-Dichloropropene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Dibromochloromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Dibromomethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Dichlorodifluoromethane	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Diisopropyl ether	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Ethanol	U	2.34	9.3		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Ethyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Ethylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Freon-114	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Hexachlorobutadiene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Isopropyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Isopropylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
m,p-Xylene	U	0.93	9.3		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Methyl Acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Methyl tert-butyl ether	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Methylene chloride	9.4	0.47	4.7	B	µg/Kg-dry	1	5/5/2012 6:40:00 AM
n-Amyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Naphthalene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
n-Butyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
n-Butylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
n-Propyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
n-Propylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
o-Xylene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
p-Diethylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
p-Ethyltoluene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
sec-Butylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Styrene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
t-Butyl alcohol	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
tert-Butylbenzene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Tetrachloroethene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Toluene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
trans-1,2-Dichloroethene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
trans-1,3-Dichloropropene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Trichloroethene	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Trichlorofluoromethane	U	0.47	4.7	C	µg/Kg-dry	1	5/5/2012 6:40:00 AM
Vinyl acetate	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Vinyl chloride	U	0.47	4.7		µg/Kg-dry	1	5/5/2012 6:40:00 AM
Surr: 4-Bromofluorobenzene	91.2	0	42-133		%REC	1	5/5/2012 6:40:00 AM
Surr: Dibromofluoromethane	99.6	0	50-133		%REC	1	5/5/2012 6:40:00 AM
Surr: Toluene-d8	92.2	0	53-130		%REC	1	5/5/2012 6:40:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.005	0.00980		mg/Kg-dry	1	5/9/2012 2:00:00 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1221	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1232	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1242	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1248	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1254	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1260	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1262	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Aroclor 1268	U	1.26	2.5		µg/Kg-dry	1	5/8/2012 11:32:00 PM
Surr: TCX	108	0	17-151		%REC	1	5/8/2012 11:32:00 PM
Surr: DCB	118	0	16-152		%REC	1	5/8/2012 11:32:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
4,4´-DDE	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
4,4´-DDT	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Aldrin	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
alpha-BHC	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
beta-BHC	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Chlordane	U	0.25	1.0		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Chlorobenzilate	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
DBCP	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 7:28:00 PM
delta-BHC	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Dieldrin	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endosulfan I	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endosulfan II	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endosulfan sulfate	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endrin	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endrin aldehyde	U	0.20	0.81		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Endrin ketone	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
gamma-BHC	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Heptachlor epoxide	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Hexachlorobenzene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Hexachlorocyclopentadiene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Methoxychlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Toxaphene	U	2.52	10		µg/Kg-dry	1	5/8/2012 7:28:00 PM
Surr: DCB	114	0	23-157		%REC	1	5/8/2012 7:28:00 PM
Surr: TCX	98.4	0	21-151		%REC	1	5/8/2012 7:28:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	0.970	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1840	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Antimony	U	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Arsenic	0.735	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Barium	7.56	0.18	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Beryllium	U	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Cadmium	U	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Calcium	244	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Chromium	5.18	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Cobalt	U	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Copper	3.71	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Iron	3320	0.18	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Lead	2.09	0.18	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Magnesium	761	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Manganese	107	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Nickel	9.23	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Potassium	285	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Selenium	U	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Silver	U	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Sodium	28.0	0.18	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Thallium	U	0.27	0.444		mg/Kg-dry	1	5/3/2012 12:44:19 PM
Vanadium	5.77	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	8.06	0.09	0.356		mg/Kg-dry	1	5/3/2012 12:44:19 PM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
1,2-Dichlorobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
1,3-Dichlorobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
1,4-Dichlorobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4,5-Trichlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4,6-Trichlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4-Dichlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4-Dimethylphenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4-Dinitrophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,4-Dinitrotoluene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2,6-Dinitrotoluene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Chloronaphthalene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Chlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Methylnaphthalene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Methylphenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Nitroaniline	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
2-Nitrophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
3,3´-Dichlorobenzidine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
3+4-Methylphenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
3-Nitroaniline	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4,6-Dinitro-2-methylphenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Bromophenyl phenyl ether	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Chloro-3-methylphenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Chloroaniline	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Chlorophenyl phenyl ether	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Nitroaniline	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
4-Nitrophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Acenaphthene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Acenaphthylene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Acetophenone	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Anthracene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Atrazine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Azobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzaldehyde	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzidine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzo(a)anthracene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzo(a)pyrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzo(b)fluoranthene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzo(g,h,i)perylene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzo(k)fluoranthene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzoic acid	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Benzyl alcohol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Biphenyl	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Bis(2-chloroethoxy)methane	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Bis(2-chloroethyl)ether	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Bis(2-chloroisopropyl)ether	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Bis(2-ethylhexyl)phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Butyl benzyl phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Caprolactam	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Carbazole	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Chrysene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Dibenzo(a,h)anthracene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Dibenzofuran	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Diethyl phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Dimethyl phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Di-n-butyl phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Di-n-octyl phthalate	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Fluoranthene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Fluorene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Hexachlorobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Hexachlorobutadiene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Hexachlorocyclopentadiene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-3 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:15:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Indeno(1,2,3-c,d)pyrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Isophorone	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Naphthalene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Nitrobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
N-Nitrosodimethylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
N-Nitrosodi-n-propylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
N-Nitrosodiphenylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Parathion	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Pentachlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Phenanthrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Phenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Pyrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Pyridine	U	25.2	250		µg/Kg-dry	1	5/8/2012 3:49:00 PM
Surr: 2,4,6-Tribromophenol	91.2	0	21-119		%REC	1	5/8/2012 3:49:00 PM
Surr: 2-Fluorobiphenyl	100	0	21-117		%REC	1	5/8/2012 3:49:00 PM
Surr: 2-Fluorophenol	49.0	0	11-105		%REC	1	5/8/2012 3:49:00 PM
Surr: 4-Terphenyl-d14	93.8	0	21-132		%REC	1	5/8/2012 3:49:00 PM
Surr: Nitrobenzene-d5	69.9	0	18-116		%REC	1	5/8/2012 3:49:00 PM
Surr: Phenol-d6	60.6	0	12-110		%REC	1	5/8/2012 3:49:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1,1-Trichloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1,2,2-Tetrachloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1,2-Trichloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1-Dichloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1-Dichloroethene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,1-Dichloropropene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2,3-Trichlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2,3-Trichloropropane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2,4,5-Tetramethylbenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2,4-Trichlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2,4-Trimethylbenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2-Dibromo-3-chloropropane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2-Dibromoethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2-Dichlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2-Dichloroethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,2-Dichloropropane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,3,5-Trimethylbenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,3-Dichlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,3-dichloropropane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,4-Dichlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
1,4-Dioxane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
2,2-Dichloropropane	U	0.49	4.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
2-Butanone	U	1.48	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
2-Chloroethyl vinyl ether	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
2-Chlorotoluene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
2-Hexanone	U	1.48	4.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
2-Propanol	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
4-Chlorotoluene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
4-Isopropyltoluene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
4-Methyl-2-pentanone	U	1.48	4.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
Acetone	U	1.48	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-06A

Client Sample ID: B-1 (0-2')
Collection Date: 5/2/2012 11:50:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.47	9.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
Acrylonitrile	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Benzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Bromobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Bromochloromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Bromodichloromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Bromoform	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Bromomethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Carbon disulfide	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Carbon tetrachloride	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Chlorobenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Chlorodifluoromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Chloroethane	U	0.49	4.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
Chloroform	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Chloromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
cis-1,2-Dichloroethene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
cis-1,3-Dichloropropene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Dibromochloromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Dibromomethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Dichlorodifluoromethane	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Diisopropyl ether	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Ethanol	U	2.47	9.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Ethyl acetate	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Ethylbenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Freon-114	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Hexachlorobutadiene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Isopropyl acetate	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Isopropylbenzene	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
m,p-Xylene	U	0.99	9.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Methyl Acetate	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Methyl tert-butyl ether	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Methylene chloride	9.2	0.49	4.9	B	µg/Kg-dry	1	5/5/2012 7:12:00 AM
n-Amyl acetate	U	0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06A		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260				**SW8260C**				Analyst: LA
Naphthalene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
n-Butyl acetate	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
n-Butylbenzene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
n-Propyl acetate	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
n-Propylbenzene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
o-Xylene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
p-Diethylbenzene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
p-Ethyltoluene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
sec-Butylbenzene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Styrene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
t-Butyl alcohol	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
tert-Butylbenzene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Tetrachloroethene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Toluene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
trans-1,2-Dichloroethene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
trans-1,3-Dichloropropene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Trichloroethene	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Trichlorofluoromethane	U		0.49	4.9	C	µg/Kg-dry	1	5/5/2012 7:12:00 AM
Vinyl acetate	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Vinyl chloride	U		0.49	4.9		µg/Kg-dry	1	5/5/2012 7:12:00 AM
Surr: 4-Bromofluorobenzene	89.1		0	42-133		%REC	1	5/5/2012 7:12:00 AM
Surr: Dibromofluoromethane	103		0	50-133		%REC	1	5/5/2012 7:12:00 AM
Surr: Toluene-d8	93.7		0	53-130		%REC	1	5/5/2012 7:12:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY				**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury		U	0.004	0.00850		mg/Kg-dry	1	5/9/2012 2:02:08 PM
PCB'S AS AROCLORS SW-846 METHOD 8082				**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1221		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1232		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1242		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1248		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1254		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1260		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1262		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Aroclor 1268		U	1.25	2.5		µg/Kg-dry	1	5/8/2012 11:56:00 PM
Surr: TCX	92.8		0	17-151		%REC	1	5/8/2012 11:56:00 PM
Surr: DCB	101		0	16-152		%REC	1	5/8/2012 11:56:00 PM
PESTICIDES SW-846 METHOD 8081				**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
4,4´-DDE		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
4,4´-DDT		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Aldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
alpha-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
beta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Chlordane		U	0.25	1.0		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Chlorobenzilate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
DBCP		U	0.20	0.81		µg/Kg-dry	1	5/8/2012 7:42:00 PM
delta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Dieldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endosulfan I		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endosulfan II		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endosulfan sulfate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endrin aldehyde		U	0.20	0.81		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Endrin ketone		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
gamma-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Heptachlor epoxide	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Hexachlorobenzene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Hexachlorocyclopentadiene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Methoxychlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Toxaphene	U	2.52	10		µg/Kg-dry	1	5/8/2012 7:42:00 PM
Surr: DCB	86.9	0	23-157		%REC	1	5/8/2012 7:42:00 PM
Surr: TCX	80.1	0	21-151		%REC	1	5/8/2012 7:42:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	1.11	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1610	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Antimony	U	0.20	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Arsenic	0.452	0.20	0.508	J	mg/Kg-dry	1	5/3/2012 12:46:20 PM
Barium	6.77	0.20	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Beryllium	U	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Cadmium	U	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Calcium	110	0.20	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Chromium	3.98	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Cobalt	U	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Copper	2.50	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Iron	2630	0.20	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Lead	1.33	0.20	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Magnesium	590	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Manganese	92.1	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Nickel	6.85	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Potassium	218	0.20	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Selenium	U	0.20	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Silver	U	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Sodium	13.0	0.20	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Thallium	U	0.31	0.508		mg/Kg-dry	1	5/3/2012 12:46:20 PM
Vanadium	3.77	0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	5.79		0.10	0.406		mg/Kg-dry	1	5/3/2012 12:46:20 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
1,2-Dichlorobenzene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
1,3-Dichlorobenzene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
1,4-Dichlorobenzene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4,5-Trichlorophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4,6-Trichlorophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4-Dichlorophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4-Dimethylphenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4-Dinitrophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,4-Dinitrotoluene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2,6-Dinitrotoluene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Chloronaphthalene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Chlorophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Methylnaphthalene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Methylphenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Nitroaniline		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
2-Nitrophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
3,3´-Dichlorobenzidine		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
3+4-Methylphenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
3-Nitroaniline		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4,6-Dinitro-2-methylphenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Bromophenyl phenyl ether		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Chloro-3-methylphenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Chloroaniline		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Chlorophenyl phenyl ether		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Nitroaniline		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
4-Nitrophenol		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Acenaphthene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Acenaphthylene		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Acetophenone		U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Anthracene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Atrazine	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Azobenzene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzaldehyde	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzidine	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzo(a)anthracene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzo(a)pyrene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzo(b)fluoranthene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzo(g,h,i)perylene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzo(k)fluoranthene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzoic acid	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Benzyl alcohol	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Biphenyl	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Bis(2-chloroethoxy)methane	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Bis(2-chloroethyl)ether	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Bis(2-chloroisopropyl)ether	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Bis(2-ethylhexyl)phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Butyl benzyl phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Caprolactam	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Carbazole	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Chrysene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Dibenzo(a,h)anthracene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Dibenzofuran	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Diethyl phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Dimethyl phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Di-n-butyl phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Di-n-octyl phthalate	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Fluoranthene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Fluorene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Hexachlorobenzene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Hexachlorobutadiene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Hexachlorocyclopentadiene	U		24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 11:50:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-06B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Indeno(1,2,3-c,d)pyrene	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Isophorone	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Naphthalene	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Nitrobenzene	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
N-Nitrosodimethylamine	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
N-Nitrosodi-n-propylamine	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
N-Nitrosodiphenylamine	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Parathion	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Pentachlorophenol	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Phenanthrene	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Phenol	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Pyrene	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Pyridine	U	24.9	250		µg/Kg-dry	1	5/8/2012 3:24:00 PM
Surr: 2,4,6-Tribromophenol	111	0	21-119		%REC	1	5/8/2012 3:24:00 PM
Surr: 2-Fluorobiphenyl	107	0	21-117		%REC	1	5/8/2012 3:24:00 PM
Surr: 2-Fluorophenol	61.9	0	11-105		%REC	1	5/8/2012 3:24:00 PM
Surr: 4-Terphenyl-d14	106	0	21-132		%REC	1	5/8/2012 3:24:00 PM
Surr: Nitrobenzene-d5	81.1	0	18-116		%REC	1	5/8/2012 3:24:00 PM
Surr: Phenol-d6	76.7	0	12-110		%REC	1	5/8/2012 3:24:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1,1-Trichloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1,2,2-Tetrachloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1,2-Trichloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1-Dichloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1-Dichloroethene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,1-Dichloropropene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2,3-Trichlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2,3-Trichloropropane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2,4,5-Tetramethylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2,4-Trichlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2,4-Trimethylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2-Dibromo-3-chloropropane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2-Dibromoethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2-Dichlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2-Dichloroethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,2-Dichloropropane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,3,5-Trimethylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,3-Dichlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,3-dichloropropane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,4-Dichlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
1,4-Dioxane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
2,2-Dichloropropane	U	0.54	5.4	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
2-Butanone	U	1.61	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
2-Chloroethyl vinyl ether	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
2-Chlorotoluene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
2-Hexanone	U	1.61	5.4	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
2-Propanol	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
4-Chlorotoluene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
4-Isopropyltoluene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
4-Methyl-2-pentanone	U	1.61	5.4	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
Acetone	U	1.61	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Acrolein	U	2.69	11	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
Acrylonitrile	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Benzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Bromobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Bromochloromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Bromodichloromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Bromoform	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Bromomethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Carbon disulfide	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Carbon tetrachloride	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Chlorobenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Chlorodifluoromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Chloroethane	U	0.54	5.4	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
Chloroform	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Chloromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
cis-1,2-Dichloroethene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
cis-1,3-Dichloropropene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Dibromochloromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Dibromomethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Dichlorodifluoromethane	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Diisopropyl ether	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Ethanol	U	2.69	11		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Ethyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Ethylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Freon-114	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Hexachlorobutadiene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Isopropyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Isopropylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
m,p-Xylene	U	1.07	11		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Methyl Acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Methyl tert-butyl ether	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Methylene chloride	11	0.54	5.4	B	µg/Kg-dry	1	5/5/2012 7:45:00 AM
n-Amyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
n-Butyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
n-Butylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
n-Propyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
n-Propylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
o-Xylene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
p-Diethylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
p-Ethyltoluene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
sec-Butylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Styrene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
t-Butyl alcohol	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
tert-Butylbenzene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Tetrachloroethene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Toluene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
trans-1,2-Dichloroethene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
trans-1,3-Dichloropropene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Trichloroethene	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Trichlorofluoromethane	U	0.54	5.4	C	µg/Kg-dry	1	5/5/2012 7:45:00 AM
Vinyl acetate	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Vinyl chloride	U	0.54	5.4		µg/Kg-dry	1	5/5/2012 7:45:00 AM
Surr: 4-Bromofluorobenzene	87.1	0	42-133		%REC	1	5/5/2012 7:45:00 AM
Surr: Dibromofluoromethane	97.0	0	50-133		%REC	1	5/5/2012 7:45:00 AM
Surr: Toluene-d8	92.4	0	53-130		%REC	1	5/5/2012 7:45:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00533	0.005	0.00968	J	mg/Kg-dry	1	5/9/2012 2:04:16 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1221	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1232	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1242	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1248	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1254	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1260	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1262	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Aroclor 1268	U	1.27	2.5		µg/Kg-dry	1	5/9/2012 12:20:00 AM
Surr: TCX	96.7	0	17-151		%REC	1	5/9/2012 12:20:00 AM
Surr: DCB	107	0	16-152		%REC	1	5/9/2012 12:20:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
4,4´-DDE	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
4,4´-DDT	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Aldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
alpha-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
beta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Chlordane	U	0.26	1.0		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Chlorobenzilate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
DBCP	U	0.20	0.82		µg/Kg-dry	1	5/8/2012 7:56:00 PM
delta-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Dieldrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endosulfan I	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endosulfan II	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endosulfan sulfate	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endrin	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endrin aldehyde	U	0.20	0.82		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Endrin ketone	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
gamma-BHC	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-07B

Client Sample ID: B-1 (15-17')
Collection Date: 5/2/2012 12:10:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Heptachlor epoxide	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Hexachlorobenzene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Hexachlorocyclopentadiene	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Methoxychlor	U	0.10	0.41		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Toxaphene	U	2.55	10		µg/Kg-dry	1	5/8/2012 7:56:00 PM
Surr: DCB	97.5	0	23-157		%REC	1	5/8/2012 7:56:00 PM
Surr: TCX	85.7	0	21-151		%REC	1	5/8/2012 7:56:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	3.48	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	1670	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Antimony	U	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Arsenic	0.614	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Barium	7.78	0.20	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Beryllium	U	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Cadmium	U	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Calcium	350	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Chromium	4.16	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Cobalt	U	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Copper	3.59	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Iron	2970	0.20	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Lead	1.58	0.20	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Magnesium	690	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Manganese	82.9	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Nickel	6.79	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Potassium	315	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Selenium	U	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Silver	U	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Sodium	20.1	0.20	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Thallium	U	0.31	0.510		mg/Kg-dry	1	5/3/2012 12:48:23 PM
Vanadium	4.31	0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	7.76		0.10	0.408		mg/Kg-dry	1	5/3/2012 12:48:23 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
1,2-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
1,3-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
1,4-Dichlorobenzene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4,5-Trichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4,6-Trichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4-Dichlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4-Dimethylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4-Dinitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,4-Dinitrotoluene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2,6-Dinitrotoluene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Chloronaphthalene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Chlorophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Methylnaphthalene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
2-Nitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
3,3'-Dichlorobenzidine		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
3+4-Methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
3-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4,6-Dinitro-2-methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Bromophenyl phenyl ether		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Chloro-3-methylphenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Chloroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Chlorophenyl phenyl ether		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Nitroaniline		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
4-Nitrophenol		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Acenaphthene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Acenaphthylene		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Acetophenone		U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-07B

Client Sample ID: B-1 (15-17')
Collection Date: 5/2/2012 12:10:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Atrazine	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Azobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzaldehyde	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzidine	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzo(a)anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzo(a)pyrene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzo(b)fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzo(g,h,i)perylene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzo(k)fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzoic acid	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Benzyl alcohol	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Biphenyl	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Bis(2-chloroethoxy)methane	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Bis(2-chloroethyl)ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Bis(2-chloroisopropyl)ether	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Bis(2-ethylhexyl)phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Butyl benzyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Caprolactam	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Carbazole	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Chrysene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Dibenzo(a,h)anthracene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Dibenzofuran	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Diethyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Dimethyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Di-n-butyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Di-n-octyl phthalate	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Fluoranthene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Fluorene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Hexachlorobenzene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Hexachlorobutadiene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Hexachlorocyclopentadiene	U	25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-1 (15-17')
Lab Order:	1205020	**Collection Date:**	5/2/2012 12:10:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-07B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Indeno(1,2,3-c,d)pyrene	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Isophorone	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Naphthalene	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Nitrobenzene	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
N-Nitrosodimethylamine	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
N-Nitrosodi-n-propylamine	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
N-Nitrosodiphenylamine	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Parathion	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Pentachlorophenol	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Phenanthrene	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Phenol	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Pyrene	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Pyridine	U		25.4	250		µg/Kg-dry	1	5/8/2012 2:59:00 PM
Surr: 2,4,6-Tribromophenol	104		0	21-119		%REC	1	5/8/2012 2:59:00 PM
Surr: 2-Fluorobiphenyl	108		0	21-117		%REC	1	5/8/2012 2:59:00 PM
Surr: 2-Fluorophenol	55.7		0	11-105		%REC	1	5/8/2012 2:59:00 PM
Surr: 4-Terphenyl-d14	102		0	21-132		%REC	1	5/8/2012 2:59:00 PM
Surr: Nitrobenzene-d5	76.5		0	18-116		%REC	1	5/8/2012 2:59:00 PM
Surr: Phenol-d6	69.6		0	12-110		%REC	1	5/8/2012 2:59:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1,1-Trichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1,2,2-Tetrachloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1,2-Trichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1-Dichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,1-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2,3-Trichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2,3-Trichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2,4,5-Tetramethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2,4-Trichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2,4-Trimethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2-Dibromo-3-chloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2-Dibromoethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2-Dichloroethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,2-Dichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,3,5-Trimethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,3-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,3-dichloropropane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,4-Dichlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
1,4-Dioxane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
2,2-Dichloropropane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
2-Butanone	U	1.59	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
2-Chloroethyl vinyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
2-Chlorotoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
2-Hexanone	U	1.59	5.3	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
2-Propanol	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
4-Chlorotoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
4-Isopropyltoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
4-Methyl-2-pentanone	U	1.59	5.3	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
Acetone	U	1.59	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.64	11	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
Acrylonitrile	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Benzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Bromobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Bromochloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Bromodichloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Bromoform	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Bromomethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Carbon disulfide	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Carbon tetrachloride	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Chlorobenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Chlorodifluoromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Chloroethane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
Chloroform	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Chloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
cis-1,2-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
cis-1,3-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Dibromochloromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Dibromomethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Dichlorodifluoromethane	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Diisopropyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Ethanol	U	2.64	11		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Ethyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Ethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Freon-114	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Hexachlorobutadiene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Isopropyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Isopropylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
m,p-Xylene	U	1.06	11		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Methyl Acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Methyl tert-butyl ether	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Methylene chloride	10	0.53	5.3	B	µg/Kg-dry	1	5/5/2012 8:18:00 AM
n-Amyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
n-Butyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
n-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
n-Propyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
n-Propylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
o-Xylene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
p-Diethylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
p-Ethyltoluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
sec-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Styrene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
t-Butyl alcohol	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
tert-Butylbenzene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Tetrachloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Toluene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
trans-1,2-Dichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
trans-1,3-Dichloropropene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Trichloroethene	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Trichlorofluoromethane	U	0.53	5.3	C	µg/Kg-dry	1	5/5/2012 8:18:00 AM
Vinyl acetate	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Vinyl chloride	U	0.53	5.3		µg/Kg-dry	1	5/5/2012 8:18:00 AM
Surr: 4-Bromofluorobenzene	87.8	0	42-133		%REC	1	5/5/2012 8:18:00 AM
Surr: Dibromofluoromethane	101	0	50-133		%REC	1	5/5/2012 8:18:00 AM
Surr: Toluene-d8	90.2	0	53-130		%REC	1	5/5/2012 8:18:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY				**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury		U	0.005	0.00956		mg/Kg-dry	1	5/9/2012 2:06:25 PM
PCB'S AS AROCLORS SW-846 METHOD 8082				**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1221		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1232		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1242		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1248		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1254		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1260		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1262		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Aroclor 1268		U	1.26	2.5		µg/Kg-dry	1	5/9/2012 12:44:00 AM
Surr: TCX	96.9		0	17-151		%REC	1	5/9/2012 12:44:00 AM
Surr: DCB	106		0	16-152		%REC	1	5/9/2012 12:44:00 AM
PESTICIDES SW-846 METHOD 8081				**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
4,4´-DDE		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
4,4´-DDT		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Aldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
alpha-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
beta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Chlordane		U	0.25	1.0		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Chlorobenzilate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
DBCP		U	0.20	0.80		µg/Kg-dry	1	5/8/2012 8:10:00 PM
delta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Dieldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endosulfan I		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endosulfan II		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endosulfan sulfate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endrin aldehyde		U	0.20	0.80		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Endrin ketone		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
gamma-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Heptachlor epoxide	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Hexachlorobenzene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Hexachlorocyclopentadiene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Methoxychlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Toxaphene	U	2.51	10		µg/Kg-dry	1	5/8/2012 8:10:00 PM
Surr: DCB	101	0	23-157		%REC	1	5/8/2012 8:10:00 PM
Surr: TCX	78.5	0	21-151		%REC	1	5/8/2012 8:10:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	2.27	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	2190	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Antimony	U	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Arsenic	0.982	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Barium	9.21	0.2	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Beryllium	U	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Cadmium	U	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Calcium	144	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Chromium	8.10	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Cobalt	U	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Copper	2.97	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Iron	3390	0.2	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Lead	1.94	0.2	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Magnesium	861	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Manganese	134	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Nickel	7.89	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Potassium	420	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Selenium	U	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Silver	U	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Sodium	22.4	0.2	0.494		mg/Kg-dry	1	5/3/2012 12:50:25 PM
Thallium	0.371	0.3	0.494	J	mg/Kg-dry	1	5/3/2012 12:50:25 PM
Vanadium	6.70	0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	8.62		0.1	0.395		mg/Kg-dry	1	5/3/2012 12:50:25 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
1,2-Dichlorobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
1,3-Dichlorobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
1,4-Dichlorobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4,5-Trichlorophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4,6-Trichlorophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4-Dichlorophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4-Dimethylphenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4-Dinitrophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,4-Dinitrotoluene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2,6-Dinitrotoluene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Chloronaphthalene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Chlorophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Methylnaphthalene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Methylphenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Nitroaniline		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
2-Nitrophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
3,3'-Dichlorobenzidine		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
3+4-Methylphenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
3-Nitroaniline		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4,6-Dinitro-2-methylphenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Bromophenyl phenyl ether		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Chloro-3-methylphenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Chloroaniline		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Chlorophenyl phenyl ether		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Nitroaniline		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
4-Nitrophenol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Acenaphthene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Acenaphthylene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Acetophenone		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Anthracene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Atrazine		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Azobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzaldehyde		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzidine		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzo(a)anthracene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzo(a)pyrene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzo(b)fluoranthene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzo(g,h,i)perylene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzo(k)fluoranthene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzoic acid		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Benzyl alcohol		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Biphenyl		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Bis(2-chloroethoxy)methane		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Bis(2-chloroethyl)ether		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Bis(2-chloroisopropyl)ether		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Bis(2-ethylhexyl)phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Butyl benzyl phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Caprolactam		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Carbazole		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Chrysene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Dibenzo(a,h)anthracene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Dibenzofuran		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Diethyl phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Dimethyl phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Di-n-butyl phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Di-n-octyl phthalate		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Fluoranthene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Fluorene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Hexachlorobenzene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Hexachlorobutadiene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Hexachlorocyclopentadiene		U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-4 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:00:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Indeno(1,2,3-c,d)pyrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Isophorone	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Naphthalene	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Nitrobenzene	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
N-Nitrosodimethylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
N-Nitrosodi-n-propylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
N-Nitrosodiphenylamine	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Parathion	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Pentachlorophenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Phenanthrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Phenol	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Pyrene	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Pyridine	U	25.2	250		µg/Kg-dry	1	5/8/2012 2:35:00 PM
Surr: 2,4,6-Tribromophenol	94.7	0	21-119		%REC	1	5/8/2012 2:35:00 PM
Surr: 2-Fluorobiphenyl	92.1	0	21-117		%REC	1	5/8/2012 2:35:00 PM
Surr: 2-Fluorophenol	51.5	0	11-105		%REC	1	5/8/2012 2:35:00 PM
Surr: 4-Terphenyl-d14	97.2	0	21-132		%REC	1	5/8/2012 2:35:00 PM
Surr: Nitrobenzene-d5	70.8	0	18-116		%REC	1	5/8/2012 2:35:00 PM
Surr: Phenol-d6	54.8	0	12-110		%REC	1	5/8/2012 2:35:00 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1,1-Trichloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1,2,2-Tetrachloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1,2-Trichloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1-Dichloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1-Dichloroethene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,1-Dichloropropene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2,3-Trichlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2,3-Trichloropropane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2,4,5-Tetramethylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2,4-Trichlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2,4-Trimethylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2-Dibromo-3-chloropropane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2-Dibromoethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2-Dichlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2-Dichloroethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,2-Dichloropropane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,3,5-Trimethylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,3-Dichlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,3-dichloropropane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,4-Dichlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
1,4-Dioxane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
2,2-Dichloropropane	U	0.45	4.5	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
2-Butanone	U	1.34	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
2-Chloroethyl vinyl ether	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
2-Chlorotoluene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
2-Hexanone	U	1.34	4.5	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
2-Propanol	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
4-Chlorotoluene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
4-Isopropyltoluene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
4-Methyl-2-pentanone	U	1.34	4.5	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
Acetone	U	1.34	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Acrolein	U	2.23	8.9	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
Acrylonitrile	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Benzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Bromobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Bromochloromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Bromodichloromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Bromoform	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Bromomethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Carbon disulfide	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Carbon tetrachloride	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Chlorobenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Chlorodifluoromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Chloroethane	U	0.45	4.5	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
Chloroform	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Chloromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
cis-1,2-Dichloroethene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
cis-1,3-Dichloropropene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Dibromochloromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Dibromomethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Dichlorodifluoromethane	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Diisopropyl ether	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Ethanol	U	2.23	8.9		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Ethyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Ethylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Freon-114	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Hexachlorobutadiene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Isopropyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Isopropylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
m,p-Xylene	U	0.89	8.9		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Methyl Acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Methyl tert-butyl ether	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Methylene chloride	8.0	0.45	4.5	B	µg/Kg-dry	1	5/5/2012 8:51:00 AM
n-Amyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: LA
Naphthalene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
n-Butyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
n-Butylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
n-Propyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
n-Propylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
o-Xylene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
p-Diethylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
p-Ethyltoluene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
sec-Butylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Styrene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
t-Butyl alcohol	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
tert-Butylbenzene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Tetrachloroethene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Toluene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
trans-1,2-Dichloroethene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
trans-1,3-Dichloropropene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Trichloroethene	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Trichlorofluoromethane	U	0.45	4.5	C	µg/Kg-dry	1	5/5/2012 8:51:00 AM
Vinyl acetate	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Vinyl chloride	U	0.45	4.5		µg/Kg-dry	1	5/5/2012 8:51:00 AM
Surr: 4-Bromofluorobenzene	90.7	0	42-133		%REC	1	5/5/2012 8:51:00 AM
Surr: Dibromofluoromethane	96.7	0	50-133		%REC	1	5/5/2012 8:51:00 AM
Surr: Toluene-d8	89.7	0	53-130		%REC	1	5/5/2012 8:51:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY				**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00941		0.004	0.00819		mg/Kg-dry	1	5/9/2012 2:08:34 PM
PCB'S AS AROCLORS SW-846 METHOD 8082				**SW8082A**		**SW3550C**		Analyst: **SB**
Aroclor 1016		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1221		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1232		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1242		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1248		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1254		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1260		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1262		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Aroclor 1268		U	1.22	2.4		µg/Kg-dry	1	5/9/2012 1:08:00 AM
Surr: TCX	109		0	17-151		%REC	1	5/9/2012 1:08:00 AM
Surr: DCB	119		0	16-152		%REC	1	5/9/2012 1:08:00 AM
PESTICIDES SW-846 METHOD 8081				**SW8081B**		**SW3550C**		Analyst: **SB**
4,4´-DDD		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
4,4´-DDE		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
4,4´-DDT		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Aldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
alpha-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
beta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Chlordane		U	0.25	1.0		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Chlorobenzilate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
DBCP		U	0.20	0.81		µg/Kg-dry	1	5/8/2012 8:24:00 PM
delta-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Dieldrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endosulfan I		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endosulfan II		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endosulfan sulfate		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endrin		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endrin aldehyde		U	0.20	0.81		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Endrin ketone		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
gamma-BHC		U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3550C**		Analyst: **SB**
Heptachlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Heptachlor epoxide	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Hexachlorobenzene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Hexachlorocyclopentadiene	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Methoxychlor	U	0.10	0.40		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Toxaphene	U	2.52	10		µg/Kg-dry	1	5/8/2012 8:24:00 PM
Surr: DCB	103	0	23-157		%REC	1	5/8/2012 8:24:00 PM
Surr: TCX	86.8	0	21-151		%REC	1	5/8/2012 8:24:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	2.28	0	0		wt%	1	5/4/2012
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	2460	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Antimony	U	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Arsenic	0.969	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Barium	15.0	0.21	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Beryllium	U	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Cadmium	U	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Calcium	182	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Chromium	6.16	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Cobalt	U	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Copper	3.47	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Iron	3530	0.21	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Lead	3.74	0.21	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Magnesium	613	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Manganese	106	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Nickel	8.02	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Potassium	221	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Selenium	U	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Silver	U	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Sodium	31.0	0.21	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Thallium	U	0.31	0.512		mg/Kg-dry	1	5/3/2012 1:01:19 PM
Vanadium	6.44	0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09B		

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TARGET ANALYTE LIST METALS				**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	9.78		0.10	0.409		mg/Kg-dry	1	5/3/2012 1:01:19 PM
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
1,2,4-Trichlorobenzene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
1,2-Dichlorobenzene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
1,3-Dichlorobenzene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
1,4-Dichlorobenzene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4,5-Trichlorophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4,6-Trichlorophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4-Dichlorophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4-Dimethylphenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4-Dinitrophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,4-Dinitrotoluene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2,6-Dinitrotoluene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Chloronaphthalene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Chlorophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Methylnaphthalene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Methylphenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Nitroaniline		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
2-Nitrophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
3,3´-Dichlorobenzidine		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
3+4-Methylphenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
3-Nitroaniline		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4,6-Dinitro-2-methylphenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Bromophenyl phenyl ether		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Chloro-3-methylphenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Chloroaniline		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Chlorophenyl phenyl ether		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Nitroaniline		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
4-Nitrophenol		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Acenaphthene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Acenaphthylene		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Acetophenone		U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	B-6 (0-2')
Lab Order:	1205020	**Collection Date:**	5/2/2012 1:40:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	SOIL
Lab ID:	1205020-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3550C**		Analyst: **LDS**
Aniline	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Anthracene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Atrazine	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Azobenzene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzaldehyde	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzidine	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzo(a)anthracene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzo(a)pyrene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzo(b)fluoranthene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzo(g,h,i)perylene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzo(k)fluoranthene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzoic acid	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Benzyl alcohol	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Biphenyl	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Bis(2-chloroethoxy)methane	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Bis(2-chloroethyl)ether	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Bis(2-chloroisopropyl)ether	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Bis(2-ethylhexyl)phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Butyl benzyl phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Caprolactam	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Carbazole	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Chrysene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Dibenzo(a,h)anthracene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Dibenzofuran	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Diethyl phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Dimethyl phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Di-n-butyl phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Di-n-octyl phthalate	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Fluoranthene	28	24.4	240	J	µg/Kg-dry	1	5/8/2012 2:10:00 PM
Fluorene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Hexachlorobenzene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Hexachlorobutadiene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Hexachlorocyclopentadiene	U	24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *10-May-12*

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY
Lab ID: 1205020-09B

Client Sample ID: B-6 (0-2')
Collection Date: 5/2/2012 1:40:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result		LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270				**SW8270D**		**SW3550C**		Analyst: **LDS**
Hexachloroethane	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Indeno(1,2,3-c,d)pyrene	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Isophorone	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Naphthalene	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Nitrobenzene	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
N-Nitrosodimethylamine	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
N-Nitrosodi-n-propylamine	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
N-Nitrosodiphenylamine	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Parathion	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Pentachlorophenol	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Phenanthrene	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Phenol	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Pyrene	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Pyridine	U		24.4	240		µg/Kg-dry	1	5/8/2012 2:10:00 PM
Surr: 2,4,6-Tribromophenol	113		0	21-119		%REC	1	5/8/2012 2:10:00 PM
Surr: 2-Fluorobiphenyl	125		0	21-117	S	%REC	1	5/8/2012 2:10:00 PM
Surr: 2-Fluorophenol	75.9		0	11-105		%REC	1	5/8/2012 2:10:00 PM
Surr: 4-Terphenyl-d14	93.1		0	21-132		%REC	1	5/8/2012 2:10:00 PM
Surr: Nitrobenzene-d5	100		0	18-116		%REC	1	5/8/2012 2:10:00 PM
Surr: Phenol-d6	90.9		0	12-110		%REC	1	5/8/2012 2:10:00 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- C Calibration %RSD/%D exceeded for non-CCC analytes
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- LOD Limit of Detection
- LOQ Limit of Quantitation
- P >40% diff for detected conc between the two GC columns
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits
- U Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *10-May-12*

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRY_TAL_MET

Sample ID: **MBS050312A** SampType: **MBLK** TestCode: **DRY_TAL_M** Units: **mg/Kg** Prep Date: **5/3/2012** RunNo: **63251**
Client ID: **PBS** Batch ID: **35696** TestNo: **SW6010C** **SW3050B** Analysis Date: **5/3/2012** SeqNo: **889729**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	U	0.400									
Antimony	U	0.500									
Arsenic	U	0.500									
Barium	U	0.400									
Beryllium	U	0.400									
Cadmium	U	0.400									
Calcium	U	0.500									
Chromium	U	0.400									
Cobalt	U	0.400									
Copper	U	0.400									
Iron	U	0.400									
Lead	U	0.400									
Magnesium	U	0.400									
Manganese	U	0.400									
Nickel	U	0.400									
Potassium	U	0.500									
Selenium	U	0.500									
Silver	U	0.400									
Sodium	U	0.500									
Thallium	U	0.500									
Vanadium	U	0.400									
Zinc	U	0.400									

Sample ID: **LCSS050312A** SampType: **LCS** TestCode: **DRY_TAL_M** Units: **mg/Kg** Prep Date: **5/3/2012** RunNo: **63251**
Client ID: **LCSS** Batch ID: **35696** TestNo: **SW6010C** **SW3050B** Analysis Date: **5/3/2012** SeqNo: **889730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	39.3	0.400	40.00	0	98.2	80	120				
Antimony	41.5	0.500	40.00	0	104	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRY_TAL_MET

Sample ID: **LCSS050312A** SampType: **LCS** TestCode: **DRY_TAL_M** Units: **mg/Kg** Prep Date: **5/3/2012** RunNo: **63251**
Client ID: **LCSS** Batch ID: **35696** TestNo: **SW6010C** **SW3050B** Analysis Date: **5/3/2012** SeqNo: **889730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.2	0.500	40.00	0	103	80	120				
Barium	39.3	0.400	40.00	0	98.3	80	120				
Beryllium	41.1	0.400	40.00	0	103	80	120				
Cadmium	41.1	0.400	40.00	0	103	80	120				
Calcium	40.8	0.500	40.00	0	102	80	120				
Chromium	42.1	0.400	40.00	0	105	80	120				
Cobalt	41.7	0.400	40.00	0	104	80	120				
Copper	40.1	0.400	40.00	0	100	80	120				
Iron	41.3	0.400	40.00	0	103	80	120				
Lead	41.8	0.400	40.00	0	105	80	120				
Magnesium	40.6	0.400	40.00	0	101	80	120				
Manganese	40.6	0.400	40.00	0	102	80	120				
Nickel	41.4	0.400	40.00	0	104	80	120				
Potassium	396	0.500	400.0	0	98.9	80	120				
Selenium	41.4	0.500	40.00	0	104	80	120				
Silver	39.0	0.400	40.00	0	97.6	80	120				
Sodium	41.3	0.500	40.00	0	103	80	120				
Thallium	39.6	0.500	40.00	0	98.9	80	120				
Vanadium	40.8	0.400	40.00	0	102	80	120				
Zinc	41.3	0.400	40.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8081_Soil

Sample ID: **MB-35716** SampType: **MBLK** TestCode: **Dry8081_Soil** Units: **µg/Kg** Prep Date: **5/7/2012** RunNo: **63321**
Client ID: **PBS** Batch ID: **35716** TestNo: **SW8081B SW3550C** Analysis Date: **5/8/2012** SeqNo: **890987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	U	0.38									
4,4´-DDE	U	0.38									
4,4´-DDT	U	0.38									
Aldrin	U	0.38									
alpha-BHC	U	0.38									
beta-BHC	U	0.38									
Chlordane	U	0.96									
Chlorobenzilate	U	0.38									
DBCP	U	0.77									
delta-BHC	U	0.38									
Dieldrin	U	0.38									
Endosulfan I	U	0.38									
Endosulfan II	U	0.38									
Endosulfan sulfate	U	0.38									
Endrin	U	0.38									
Endrin aldehyde	U	0.77									
Endrin ketone	U	0.38									
gamma-BHC	U	0.38									
Heptachlor	U	0.38									
Heptachlor epoxide	U	0.38									
Hexachlorobenzene	U	0.38									
Hexachlorocyclopentadiene	U	0.38									
Methoxychlor	U	0.38									
Toxaphene	U	9.6									
Surr: DCB	27		23.96		111	23	157				
Surr: TCX	20		23.96		85.0	21	151				

Sample ID: **LCS-35716** SampType: **LCS** TestCode: **Dry8081_Soil** Units: **µg/Kg** Prep Date: **5/7/2012** RunNo: **63321**
Client ID: **LCSS** Batch ID: **35716** TestNo: **SW8081B SW3550C** Analysis Date: **5/8/2012** SeqNo: **890988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8081_Soil

Sample ID: **LCS-35716**	SampType: **LCS**	TestCode: **Dry8081_Soil**	Units: **µg/Kg**	Prep Date: **5/7/2012**		RunNo: **63321**	
Client ID: **LCSS**	Batch ID: **35716**	TestNo: **SW8081B**	**SW3550C**	Analysis Date: **5/8/2012**		SeqNo: **890988**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	4.8	0.38	4.812	0	99.2	27	149				
4,4'-DDE	3.8	0.38	4.812	0	79.7	26	144				
4,4'-DDT	5.0	0.38	4.812	0	103	25	145				
Aldrin	4.2	0.38	4.812	0	86.3	28	147				
alpha-BHC	4.1	0.38	4.812	0	85.2	34	146				
beta-BHC	4.4	0.38	4.812	0	91.8	25	155				
Chlorobenzilate	3.1	0.38	4.812	0	64.0	26	152				
DBCP	3.0	0.77	4.812	0	62.8	24	148				
delta-BHC	6.0	0.38	4.812	0	126	27	146				
Dieldrin	4.9	0.38	4.812	0	103	25	148				
Endosulfan I	4.9	0.38	4.812	0	103	26	146				
Endosulfan II	5.4	0.38	4.812	0	112	22	143				
Endosulfan sulfate	5.3	0.38	4.812	0	111	24	154				
Endrin	6.4	0.38	4.812	0	133	23	145				
Endrin aldehyde	3.1	0.77	4.812	0	65.3	25	153				
Endrin ketone	5.8	0.38	4.812	0	120	33	152				
gamma-BHC	4.3	0.38	4.812	0	89.7	27	147				
Heptachlor	6.2	0.38	4.812	0	128	33	150				
Heptachlor epoxide	5.1	0.38	4.812	0	105	33	148				
Hexachlorobenzene	3.2	0.38	4.812	0	67.4	20	145				
Hexachlorocyclopentadiene	5.1	0.38	4.812	0	106	29	144				
Methoxychlor	6.0	0.38	4.812	0	125	49	154				
Surr: DCB	30		24.06		124	23	157				
Surr: TCX	20		24.06		84.5	21	151				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8082_Soil

Sample ID: LCS-35715	SampType: LCS	TestCode: Dry8082_Soil	Units: µg/Kg	Prep Date: 5/7/2012	RunNo: 63306
Client ID: LCSS	Batch ID: 35715	TestNo: SW8082A	SW3550C	Analysis Date: 5/7/2012	SeqNo: 890669

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	64	2.5	49.65	0	130	50	135				
Surr: TCX	30		24.83		119	17	151				
Surr: DCB	30		24.83		123	16	152				

Sample ID: MB-35715	SampType: MBLK	TestCode: Dry8082_Soil	Units: µg/Kg	Prep Date: 5/7/2012	RunNo: 63306
Client ID: PBS	Batch ID: 35715	TestNo: SW8082A	SW3550C	Analysis Date: 5/7/2012	SeqNo: 890670

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	U	2.4									
Aroclor 1221	U	2.4									
Aroclor 1232	U	2.4									
Aroclor 1242	U	2.4									
Aroclor 1248	U	2.4									
Aroclor 1254	U	2.4									
Aroclor 1260	U	2.4									
Aroclor 1262	U	2.4									
Aroclor 1268	U	2.4									
Surr: TCX	22		23.96		92.0	17	151				
Surr: DCB	25		23.96		104	16	152				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8270_Soil

Sample ID: MB-35717	SampType: MBLK	TestCode: Dry8270_Soil	Units: µg/Kg	Prep Date: 5/7/2012	RunNo: 63302
Client ID: PBS	Batch ID: 35717	TestNo: SW8270D	SW3550C	Analysis Date: 5/7/2012	SeqNo: 890648

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	U	240									
1,2-Dichlorobenzene	U	240									
1,3-Dichlorobenzene	U	240									
1,4-Dichlorobenzene	U	240									
2,4,5-Trichlorophenol	U	240									
2,4,6-Trichlorophenol	U	240									
2,4-Dichlorophenol	U	240									
2,4-Dimethylphenol	U	240									
2,4-Dinitrophenol	U	240									
2,4-Dinitrotoluene	U	240									
2,6-Dinitrotoluene	U	240									
2-Chloronaphthalene	U	240									
2-Chlorophenol	U	240									
2-Methylnaphthalene	U	240									
2-Methylphenol	U	240									
2-Nitroaniline	U	240									
2-Nitrophenol	U	240									
3,3'-Dichlorobenzidine	U	240									
3+4-Methylphenol	U	240									
3-Nitroaniline	U	240									
4,6-Dinitro-2-methylphenol	U	240									
4-Bromophenyl phenyl ether	U	240									
4-Chloro-3-methylphenol	U	240									
4-Chloroaniline	U	240									
4-Chlorophenyl phenyl ether	U	240									
4-Nitroaniline	U	240									
4-Nitrophenol	U	240									
Acenaphthene	U	240									
Acenaphthylene	U	240									
Acetophenone	U	240									
Aniline	U	240									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8270_Soil

Sample ID: **MB-35717**	SampType: **MBLK**	TestCode: **Dry8270_Soil**	Units: **µg/Kg**		Prep Date: **5/7/2012**		RunNo: **63302**		
Client ID: **PBS**	Batch ID: **35717**	TestNo: **SW8270D**	**SW3550C**		Analysis Date: **5/7/2012**		SeqNo: **890648**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	U	240									
Atrazine	U	240									
Azobenzene	U	240									
Benzaldehyde	U	240									
Benzidine	U	240									
Benzo(a)anthracene	U	240									
Benzo(a)pyrene	U	240									
Benzo(b)fluoranthene	U	240									
Benzo(g,h,i)perylene	U	240									
Benzo(k)fluoranthene	U	240									
Benzoic acid	U	240									
Benzyl alcohol	U	240									
Biphenyl	U	240									
Bis(2-chloroethoxy)methane	U	240									
Bis(2-chloroethyl)ether	U	240									
Bis(2-chloroisopropyl)ether	U	240									
Bis(2-ethylhexyl)phthalate	U	240									
Butyl benzyl phthalate	U	240									
Caprolactam	U	240									
Carbazole	U	240									
Chrysene	U	240									
Dibenzo(a,h)anthracene	U	240									
Dibenzofuran	U	240									
Diethyl phthalate	U	240									
Dimethyl phthalate	U	240									
Di-n-butyl phthalate	U	240									
Di-n-octyl phthalate	U	240									
Fluoranthene	U	240									
Fluorene	U	240									
Hexachlorobenzene	U	240									
Hexachlorobutadiene	U	240									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8270_Soil

Sample ID: **MB-35717** SampType: **MBLK** TestCode: **Dry8270_Soil** Units: **µg/Kg** Prep Date: **5/7/2012** RunNo: **63302**
Client ID: **PBS** Batch ID: **35717** TestNo: **SW8270D** **SW3550C** Analysis Date: **5/7/2012** SeqNo: **890648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorocyclopentadiene	U	240									
Hexachloroethane	U	240									
Indeno(1,2,3-c,d)pyrene	U	240									
Isophorone	U	240									
Naphthalene	U	240									
Nitrobenzene	U	240									
N-Nitrosodimethylamine	U	240									
N-Nitrosodi-n-propylamine	U	240									
N-Nitrosodiphenylamine	U	240									
Parathion	U	240									
Pentachlorophenol	U	240									
Phenanthrene	U	240									
Phenol	U	240									
Pyrene	U	240									
Pyridine	U	240									
Surr: 2,4,6-Tribromophenol	1000		1917		54.3	21	119				
Surr: 2-Fluorobiphenyl	830		958.3		86.7	21	117				
Surr: 2-Fluorophenol	570		1917		29.6	11	105				
Surr: 4-Terphenyl-d14	1100		958.3		117	21	132				
Surr: Nitrobenzene-d5	650		958.3		67.8	18	116				
Surr: Phenol-d6	850		1917		44.5	12	110				

Sample ID: **LCS-35717** SampType: **LCS** TestCode: **Dry8270_Soil** Units: **µg/Kg** Prep Date: **5/7/2012** RunNo: **63302**
Client ID: **LCSS** Batch ID: **35717** TestNo: **SW8270D** **SW3550C** Analysis Date: **5/7/2012** SeqNo: **890649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	710	250	998.5	0	71.0	38	128				
1,2-Dichlorobenzene	690	250	998.5	0	69.1	35	129				
1,3-Dichlorobenzene	680	250	998.5	0	67.8	36	122				
1,4-Dichlorobenzene	680	250	998.5	0	68.0	33	127				
2,4,5-Trichlorophenol	660	250	998.5	0	65.7	42	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8270_Soil

Sample ID: **LCS-35717**	SampType: **LCS**	TestCode: **Dry8270_Soil**	Units: **µg/Kg**	Prep Date: **5/7/2012**	RunNo: **63302**
Client ID: **LCSS**	Batch ID: **35717**	TestNo: **SW8270D**	**SW3550C**	Analysis Date: **5/7/2012**	SeqNo: **890649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	750	250	998.5	0	74.9	40	124				
2,4-Dichlorophenol	710	250	998.5	0	71.5	37	124				
2,4-Dimethylphenol	670	250	998.5	0	67.4	35	127				
2,4-Dinitrotoluene	720	250	998.5	0	72.4	28	126				
2,6-Dinitrotoluene	790	250	998.5	0	78.9	29	127				
2-Chloronaphthalene	770	250	998.5	0	77.4	41	117				
2-Chlorophenol	630	250	998.5	0	63.3	37	127				
2-Methylnaphthalene	770	250	998.5	0	77.5	30	130				
2-Methylphenol	640	250	998.5	0	64.2	43	124				
2-Nitroaniline	570	250	998.5	0	57.5	30	130				
2-Nitrophenol	740	250	998.5	0	73.7	10	128				
3+4-Methylphenol	640	250	998.5	0	63.7	30	138				
3-Nitroaniline	730	250	998.5	0	73.1	30	130				
4,6-Dinitro-2-methylphenol	800	250	998.5	0	79.9	13	129				
4-Bromophenyl phenyl ether	910	250	998.5	0	90.9	27	135				
4-Chloro-3-methylphenol	700	250	998.5	0	69.9	31	135				
4-Chloroaniline	330	250	998.5	0	33.1	17	110				
4-Chlorophenyl phenyl ether	750	250	998.5	0	75.2	30	130				
4-Nitroaniline	430	250	998.5	0	43.1	20	120				
4-Nitrophenol	330	250	998.5	0	33.5	11	124				
Acenaphthene	740	250	998.5	0	74.4	38	141				
Acenaphthylene	740	250	998.5	0	74.1	48	121				
Aniline	330	250	998.5	0	32.7	25	135				
Anthracene	710	250	998.5	0	70.7	40	120				
Azobenzene	690	250	998.5	0	69.6	25	125				
Benzo(a)anthracene	770	250	998.5	0	76.8	45	120				
Benzo(a)pyrene	780	250	998.5	0	78.4	47	137				
Benzo(b)fluoranthene	760	250	998.5	0	75.6	42	136				
Benzo(k)fluoranthene	730	250	998.5	0	73.1	32	147				
Benzyl alcohol	700	250	998.5	0	70.0	20	130				
Bis(2-chloroethoxy)methane	560	250	998.5	0	56.5	23	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8270_Soil

Sample ID: **LCS-35717**	SampType: **LCS**	TestCode: **Dry8270_Soil**	Units: **µg/Kg**	Prep Date: **5/7/2012**		RunNo: **63302**	
Client ID: **LCSS**	Batch ID: **35717**	TestNo: **SW8270D**	**SW3550C**	Analysis Date: **5/7/2012**		SeqNo: **890649**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethyl)ether	630	250	998.5	0	63.1	41	136				
Bis(2-chloroisopropyl)ether	660	250	998.5	0	65.9	52	138				
Butyl benzyl phthalate	950	250	998.5	0	95.2	51	125				
Carbazole	610	250	998.5	0	60.9	30	130				
Chrysene	640	250	998.5	0	64.1	43	125				
Dibenzofuran	740	250	998.5	0	74.4	30	130				
Diethyl phthalate	820	250	998.5	0	82.0	47	125				
Dimethyl phthalate	850	250	998.5	0	84.8	44	131				
Di-n-butyl phthalate	870	250	998.5	0	86.9	51	128				
Di-n-octyl phthalate	780	250	998.5	0	77.7	41	123				
Fluoranthene	910	250	998.5	0	91.1	42	120				
Fluorene	720	250	998.5	0	71.7	38	122				
Hexachlorobenzene	810	250	998.5	0	81.2	40	133				
Hexachlorobutadiene	690	250	998.5	0	68.8	38	135				
Hexachloroethane	790	250	998.5	0	79.1	21	138				
Isophorone	650	250	998.5	0	65.3	47	122				
Naphthalene	720	250	998.5	0	72.1	33	127				
Nitrobenzene	600	250	998.5	0	60.5	36	127				
N-Nitrosodi-n-propylamine	690	250	998.5	0	69.2	45	121				
N-Nitrosodiphenylamine	1000	250	998.5	0	101	19	122				
Pentachlorophenol	390	250	998.5	0	39.2	21	124				
Phenanthrene	750	250	998.5	0	74.9	49	126				
Phenol	390	250	998.5	0	38.9	21	136				
Pyrene	760	250	998.5	0	75.9	39	123				
Surr: 2,4,6-Tribromophenol	1500		1997		74.8	21	119				
Surr: 2-Fluorobiphenyl	790		998.5		78.9	21	117				
Surr: 2-Fluorophenol	530		1997		26.4	11	105				
Surr: 4-Terphenyl-d14	1300		998.5		128	21	132				
Surr: Nitrobenzene-d5	640		998.5		63.8	18	116				
Surr: Phenol-d6	900		1997		45.1	12	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: **V624LCS-050412HS** SampType: **LCS** TestCode: **DryFull8260_** Units: **µg/Kg** Prep Date: RunNo: **63329**
Client ID: **LCSS** Batch ID: **R63329** TestNo: **SW8260C** Analysis Date: **5/5/2012** SeqNo: **891350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	36	5.0	50.00	0	71.2	40	125				
1,1,2,2-Tetrachloroethane	47	5.0	50.00	0	94.2	41	130				
1,1,2-Trichloroethane	39	5.0	50.00	0	77.9	43	121				
1,1-Dichloroethane	37	5.0	50.00	0	73.3	42	126				
1,1-Dichloroethene	40	5.0	50.00	0	79.6	40	126				
1,2-Dichlorobenzene	34	5.0	50.00	0	67.3	41	122				
1,2-Dichloroethane	37	5.0	50.00	0	74.8	42	133				
1,2-Dichloropropane	40	5.0	50.00	0	80.1	41	128				
1,3-Dichlorobenzene	33	5.0	50.00	0	65.3	45	119				
1,4-Dichlorobenzene	32	5.0	50.00	0	63.5	46	121				
2-Chloroethyl vinyl ether	38	5.0	50.00	0	76.3	30	135				
Benzene	34	5.0	50.00	0	68.4	35	123				
Bromodichloromethane	36	5.0	50.00	0	72.3	37	130				
Bromoform	45	5.0	50.00	0	89.0	43	121				
Bromomethane	38	5.0	50.00	0	75.4	32	130				
Carbon tetrachloride	38	5.0	50.00	0	75.0	37	134				
Chlorobenzene	35	5.0	50.00	0	69.3	40	124				
Chloroethane	22	5.0	50.00	0	43.3	35	141				C
Chloroform	37	5.0	50.00	0	74.8	36	126				
Chloromethane	36	5.0	50.00	0	71.5	42	141				
cis-1,3-Dichloropropene	36	5.0	50.00	0	71.4	30	130				
Dibromochloromethane	37	5.0	50.00	0	74.8	43	125				
Ethylbenzene	35	5.0	50.00	0	70.9	44	122				
Methylene chloride	36	5.0	50.00	0	72.7	32	132				B
Tetrachloroethene	34	5.0	50.00	0	67.0	31	120				
Toluene	36	5.0	50.00	0	71.5	42	124				
trans-1,2-Dichloroethene	33	5.0	50.00	0	65.5	38	122				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.3	45	123				
Trichloroethene	37	5.0	50.00	0	74.3	46	124				
Trichlorofluoromethane	52	5.0	50.00	0	103	45	137				C
Vinyl chloride	38	5.0	50.00	0	75.1	46	139				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: V624LCS-050412HS	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date:	RunNo: 63329
Client ID: LCSS	Batch ID: R63329	TestNo: SW8260C		Analysis Date: 5/5/2012	SeqNo: 891350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50		50.00		99.7	42	133				
Surr: Dibromofluoromethane	50		50.00		100	50	133				
Surr: Toluene-d8	49		50.00		97.5	53	130				

Sample ID: VBLK-050412HS-A	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date:	RunNo: 63329
Client ID: PBS	Batch ID: R63329	TestNo: SW8260C		Analysis Date: 5/5/2012	SeqNo: 891351

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,1-Dichloropropene	U	5.0									
1,2,3-Trichlorobenzene	U	5.0									
1,2,3-Trichloropropane	U	5.0									
1,2,4,5-Tetramethylbenzene	U	5.0									
1,2,4-Trichlorobenzene	U	5.0									
1,2,4-Trimethylbenzene	U	5.0									
1,2-Dibromo-3-chloropropane	U	5.0									
1,2-Dibromoethane	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,2-Dichloroethane	U	5.0									
1,2-Dichloropropane	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,3-dichloropropane	U	5.0									
1,4-Dichlorobenzene	U	5.0									
1,4-Dioxane	U	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: **VBLK-050412HS-A** SampType: **MBLK** TestCode: **DryFull8260_** Units: **µg/Kg** Prep Date: RunNo: **63329**
Client ID: **PBS** Batch ID: **R63329** TestNo: **SW8260C** Analysis Date: **5/5/2012** SeqNo: **891351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	U	5.0									C
2-Butanone	U	5.0									
2-Chloroethyl vinyl ether	U	5.0									
2-Chlorotoluene	U	5.0									
2-Hexanone	U	5.0									C
2-Propanol	U	5.0									
4-Chlorotoluene	U	5.0									
4-Isopropyltoluene	U	5.0									
4-Methyl-2-pentanone	U	5.0									C
Acetone	U	5.0									
Acrolein	U	10									C
Acrylonitrile	U	5.0									
Benzene	U	5.0									
Bromobenzene	U	5.0									
Bromochloromethane	U	5.0									
Bromodichloromethane	U	5.0									
Bromoform	U	5.0									
Bromomethane	U	5.0									
Carbon disulfide	U	5.0									
Carbon tetrachloride	U	5.0									
Chlorobenzene	U	5.0									
Chlorodifluoromethane	U	5.0									
Chloroethane	U	5.0									C
Chloroform	U	5.0									
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: **VBLK-050412HS-A** SampType: **MBLK** TestCode: **DryFull8260_** Units: **µg/Kg** Prep Date: RunNo: **63329**
Client ID: **PBS** Batch ID: **R63329** TestNo: **SW8260C** Analysis Date: **5/5/2012** SeqNo: **891351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	U	10									
Ethyl acetate	U	5.0									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropyl acetate	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	8.3	5.0									
n-Amyl acetate	U	5.0									
Naphthalene	U	5.0									
n-Butyl acetate	U	5.0									
n-Butylbenzene	U	5.0									
n-Propyl acetate	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									C
Vinyl acetate	U	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: **VBLK-050412HS-A** SampType: **MBLK** TestCode: **DryFull8260_** Units: **µg/Kg** Prep Date: RunNo: **63329**
Client ID: **PBS** Batch ID: **R63329** TestNo: **SW8260C** Analysis Date: **5/5/2012** SeqNo: **891351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	46		50.00		92.9	42	133				
Surr: Dibromofluoromethane	49		50.00		98.9	50	133				
Surr: Toluene-d8	47		50.00		94.4	53	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRYHG_S

Sample ID: **MBS050912A**	SampType: **MBLK**	TestCode: **DRYHG_S**	Units: **mg/Kg**	Prep Date: **5/9/2012**	RunNo: **63344**
Client ID: **PBS**	Batch ID: **35700**	TestNo: **SW7471B**	**SW7471B**	Analysis Date: **5/9/2012**	SeqNo: **891696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.0100									

Sample ID: **LCSS050912A**	SampType: **LCS**	TestCode: **DRYHG_S**	Units: **mg/Kg**	Prep Date: **5/9/2012**	RunNo: **63344**
Client ID: **LCSS**	Batch ID: **35700**	TestNo: **SW7471B**	**SW7471B**	Analysis Date: **5/9/2012**	SeqNo: **891697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.194	0.0100	0.2000	0	97.0	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

American Analytical Laboratories, LLC.

Date: *10-May-12*

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8081_Soil

Sample ID: **1205020-09B-MS** SampType: **MS** TestCode: **Dry8081_Soil** Units: **µg/Kg-dry** Prep Date: **5/7/2012** RunNo: **63321**
Client ID: **B-6 (0-2')** Batch ID: **35716** TestNo: **SW8081B** **SW3550C** Analysis Date: **5/8/2012** SeqNo: **891422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	5.1	0.39	4.882	0	104	25	155				
4,4'-DDE	4.8	0.39	4.882	0	98.0	20	141				
4,4'-DDT	5.3	0.39	4.882	0	109	22	140				
Aldrin	5.1	0.39	4.882	0	105	24	154				
alpha-BHC	5.4	0.39	4.882	0	111	21	145				
beta-BHC	6.0	0.39	4.882	0	124	22	156				
Chlorobenzilate	5.5	0.39	4.882	0	112	25	145				
DBCP	4.6	0.78	4.882	0	94.6	24	148				
delta-BHC	6.6	0.39	4.882	0	134	26	150				
Dieldrin	5.8	0.39	4.882	0	119	20	154				
Endosulfan I	6.0	0.39	4.882	0	123	23	151				
Endosulfan II	5.3	0.39	4.882	0	108	23	149				
Endosulfan sulfate	5.7	0.39	4.882	0	117	21	147				
Endrin	5.8	0.39	4.882	0	118	22	142				
Endrin aldehyde	2.5	0.78	4.882	0	51.5	20	145				
Endrin ketone	6.2	0.39	4.882	0	127	23	139				
gamma-BHC	5.5	0.39	4.882	0	114	21	147				
Heptachlor	6.8	0.39	4.882	0	139	23	147				
Heptachlor epoxide	5.4	0.39	4.882	0	110	24	152				
Hexachlorobenzene	5.4	0.39	4.882	0	110	25	147				
Hexachlorocyclopentadiene	7.0	0.39	4.882	0	142	30	146				
Methoxychlor	6.7	0.39	4.882	0	137	26	149				
Surr: DCB	29		24.41		119	23	157				
Surr: TCX	25		24.41		104	21	151				

Sample ID: **1205020-09B-MSD** SampType: **MSD** TestCode: **Dry8081_Soil** Units: **µg/Kg-dry** Prep Date: **5/7/2012** RunNo: **63321**
Client ID: **B-6 (0-2')** Batch ID: **35716** TestNo: **SW8081B** **SW3550C** Analysis Date: **5/8/2012** SeqNo: **891423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8081_Soil

Sample ID: **1205020-09B-MSD**	SampType: **MSD**	TestCode: **Dry8081_Soil**	Units: **µg/Kg-dry**	Prep Date: **5/7/2012**	RunNo: **63321**
Client ID: **B-6 (0-2')**	Batch ID: **35716**	TestNo: **SW8081B**	**SW3550C**	Analysis Date: **5/8/2012**	SeqNo: **891423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	6.3	0.40	5.028	0	126	25	155	5.058	22.1	20	R
4,4'-DDE	5.1	0.40	5.028	0	101	20	141	4.784	6.07	20	
4,4'-DDT	6.3	0.40	5.028	0	125	22	140	5.312	17.0	20	
Aldrin	5.8	0.40	5.028	0	116	24	154	5.112	12.9	20	
alpha-BHC	6.1	0.40	5.028	0	122	21	145	5.400	12.7	20	
beta-BHC	6.1	0.40	5.028	0	122	22	156	6.044	1.65	20	
Chlorobenzilate	2.9	0.40	5.028	0	57.8	25	145	5.483	61.4	20	R
DBCP	4.7	0.80	5.028	0	92.6	24	148	4.618	0.817	20	
delta-BHC	6.9	0.40	5.028	0	137	26	150	6.566	5.01	20	
Dieldrin	5.8	0.40	5.028	0	115	20	154	5.795	0.0395	20	
Endosulfan I	6.7	0.40	5.028	0	133	23	151	6.025	10.8	20	
Endosulfan II	5.8	0.40	5.028	0	115	23	149	5.287	9.04	20	
Endosulfan sulfate	6.6	0.40	5.028	0	130	21	147	5.707	13.9	20	
Endrin	7.1	0.40	5.028	0	140	22	142	5.771	20.2	20	R
Endrin aldehyde	4.9	0.80	5.028	0	98.1	20	145	2.514	65.0	20	R
Endrin ketone	6.8	0.40	5.028	0	135	23	139	6.218	8.92	20	
gamma-BHC	6.2	0.40	5.028	0	123	21	147	5.546	11.3	20	
Heptachlor	7.2	0.40	5.028	0	143	23	147	6.776	6.07	20	
Heptachlor epoxide	5.8	0.40	5.028	0	116	24	152	5.385	7.99	20	
Hexachlorobenzene	5.8	0.40	5.028	0	115	25	147	5.361	7.40	20	
Hexachlorocyclopentadiene	4.6	0.40	5.028	0	91.3	30	146	6.957	40.9	20	R
Methoxychlor	7.5	0.40	5.028	0	148	26	149	6.686	10.8	20	
Surr: DCB	30		25.14		121	23	157		0	0	
Surr: TCX	30		25.14		118	21	151		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Dry8082_Soil

Sample ID: 1205020-01B-MS	SampType: MS	TestCode: Dry8082_Soil	Units: µg/Kg-dry	Prep Date: 5/7/2012	RunNo: 63306
Client ID: B-2 (0-2')	Batch ID: 35715	TestNo: SW8082A	SW3550C	Analysis Date: 5/8/2012	SeqNo: 891403

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	58	2.6	51.59	0	112	30	130				
Surr: TCX	29		25.80		114	17	151				
Surr: DCB	30		25.80		115	16	152				

Sample ID: 1205020-01B-MSD	SampType: MSD	TestCode: Dry8082_Soil	Units: µg/Kg-dry	Prep Date: 5/7/2012	RunNo: 63306
Client ID: B-2 (0-2')	Batch ID: 35715	TestNo: SW8082A	SW3550C	Analysis Date: 5/8/2012	SeqNo: 891404

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	60	2.6	51.65	0	117	30	130	57.77	4.26	20	
Surr: TCX	29		25.82		114	17	151		0	0	
Surr: DCB	30		25.82		114	16	152		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205020
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRYHG_S

Sample ID: 1205070-01A-MS	SampType: MS	TestCode: DRYHG_S	Units: mg/Kg-dry	Prep Date: 5/9/2012	RunNo: 63344
Client ID: ZZZZZZ	Batch ID: 35700	TestNo: SW7471B	SW7471B	Analysis Date: 5/9/2012	SeqNo: 891720

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.237	0.0116	0.2313	0	103	80	120				

Sample ID: 1205070-01A-MSD	SampType: MSD	TestCode: DRYHG_S	Units: mg/Kg-dry	Prep Date: 5/9/2012	RunNo: 63344
Client ID: ZZZZZZ	Batch ID: 35700	TestNo: SW7471B	SW7471B	Analysis Date: 5/9/2012	SeqNo: 891721

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.265	0.0116	0.2313	0	115	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Thursday, May 24, 2012

Jim DeMartinis
J.R. Holzmacher P.E. LLC
300 Wheeler Road, Suite 402
Hauppauge, NY 11788

TEL: (631) 234-2220
FAX (631) 234-2221

RE: 224-01 Merrick Blvd., Queens, NY

Order No.: 1205159

Dear Jim DeMartinis:

American Analytical Laboratories, LLC. received 4 sample(s) on 5/17/2012 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 66 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *24-May-12*

CLIENT: J.R. Holzmacher P.E. LLC
Project: 224-01 Merrick Blvd., Queens, NY
Lab Order: 1205159

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1205159-01A	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-01B	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-01C	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-01D	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-01E	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-01F	MW-1	5/17/2012 11:41:00 AM	5/17/2012
1205159-02A	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-02B	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-02C	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-02D	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-02E	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-02F	MW-2	5/17/2012 12:16:00 PM	5/17/2012
1205159-03A	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-03B	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-03C	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-03D	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-03E	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-03F	MW-3	5/17/2012 12:56:00 PM	5/17/2012
1205159-04A	Trip Blank	5/17/2012	5/17/2012

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: J.R. Holzmacher

CONTACT: Jim DeMartinis

SAMPLER (SIGNATURE): Heather Sonnenberg

SAMPLER NAME (PRINT): Heather Sonnenberg

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

TEMPERATURE (° C): 3.6

PROJECT LOCATION: 224-01 Merrick Blvd., Queens, NY

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: EPA Method 8260	EPA Method 8270	Whole List 8081	Whole List 8082	TAL-Metals dissolved	TAL-Metals undissolved (Total)
1205159-01A-F	W	7	5-17-12	11:41 pm	MW-1	✓	✓	✓	✓	✓	✓
-02A-F	W	7		12:16 pm	MW-2	✓	✓	✓	✓	✓	✓
-03A-F	W	7		12:56 pm	MW-3	✓	✓	✓	✓	✓	✓
-04A	W	2	5/17/12	—	TRIP BLANK	✓					

COMMENTS / INSTRUCTIONS: Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS

TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: STANDARD ☒ (7-10 business days) STAT ☐ BY / /

E-MAIL ADDRESS FOR RESULTS:

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Heather Sonnenberg	5-17-12 2:15pm	Heather Sonnenberg	[illegible]	5/17/12 14:15	[illegible]
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **HOLZMACHER** Date and Time Receive **5/17/2012 2:21:51 PM**

Work Order Numbe **1205159** RcptNo: **1** Received by **CF**

COC_ID: CoolerID:

Checklist completed by Signature 5/17/12 Date Reviewed by Initials 5/17/12 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

The closing degradation standard applicable to the method blank is outside 15% acceptance limits for Endrin Breakdown (17.7% and 23.4%).

No other analytical problems were encountered.

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1,1-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1,2,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1,2-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1-Dichloroethane	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,1-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2,3-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2,3-Trichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2,4,5-Tetramethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2,4-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2,4-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2-Dibromo-3-chloropropane	U	0.5	2.0		µg/L	1	5/18/2012 3:47:00 PM
1,2-Dibromoethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2-Dichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,3,5-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,3-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,3-dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,4-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
1,4-Dioxane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
2,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
2-Butanone	U	1.25	2.5		µg/L	1	5/18/2012 3:47:00 PM
2-Chloroethyl vinyl ether	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
2-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
2-Hexanone	U	1.25	2.5		µg/L	1	5/18/2012 3:47:00 PM
2-Propanol	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
4-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
4-Isopropyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
4-Methyl-2-pentanone	U	1.25	2.5		µg/L	1	5/18/2012 3:47:00 PM
Acetone	U	1.25	5.0		µg/L	1	5/18/2012 3:47:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Acrolein	U	5	10		µg/L	1	5/18/2012 3:47:00 PM
Acrylonitrile	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Benzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Bromobenzene	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
Bromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Bromodichloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Bromoform	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Bromomethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:47:00 PM
Carbon disulfide	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Carbon tetrachloride	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Chlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Chlorodifluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Chloroethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:47:00 PM
Chloroform	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Chloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
cis-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
cis-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Dibromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Dibromomethane	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Dichlorodifluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:47:00 PM
Diisopropyl ether	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Ethanol	U	2.5	5.0		µg/L	1	5/18/2012 3:47:00 PM
Ethyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
Ethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Freon-114	U	0.25	1.0	C	µg/L	1	5/18/2012 3:47:00 PM
Hexachlorobutadiene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Isopropyl acetate	U	1	2.0		µg/L	1	5/18/2012 3:47:00 PM
Isopropylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
m,p-Xylene	U	0.5	2.0		µg/L	1	5/18/2012 3:47:00 PM
Methyl Acetate	U	0.5	2.0		µg/L	1	5/18/2012 3:47:00 PM
Methyl tert-butyl ether	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Methylene chloride	3.0	0.25	1.0	B	µg/L	1	5/18/2012 3:47:00 PM
n-Amyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
n-Butyl acetate	U	0.25	2.0		µg/L	1	5/18/2012 3:47:00 PM
n-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
n-Propyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
n-Propylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
o-Xylene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
p-Diethylbenzene	U	0.5	1.0		µg/L	1	5/18/2012 3:47:00 PM
p-Ethyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
sec-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Styrene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
t-Butyl alcohol	U	1	2.0		µg/L	1	5/18/2012 3:47:00 PM
tert-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Tetrachloroethene	U	0.25	2.0		µg/L	1	5/18/2012 3:47:00 PM
Toluene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
trans-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
trans-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Trichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Trichlorofluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:47:00 PM
Vinyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Vinyl chloride	U	0.25	1.0		µg/L	1	5/18/2012 3:47:00 PM
Surr: 4-Bromofluorobenzene	103	0	63-123		%REC	1	5/18/2012 3:47:00 PM
Surr: Dibromofluoromethane	96.1	0	68-124		%REC	1	5/18/2012 3:47:00 PM
Surr: Toluene-d8	97.2	0	67-125		%REC	1	5/18/2012 3:47:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
1,2,4-Trichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
1,2-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
1,3-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
1,4-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4,5-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4,6-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4-Dichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4-Dimethylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4-Dinitrophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,4-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2,6-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Chloronaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Chlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Methylnaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
2-Nitrophenol	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
3,3'-Dichlorobenzidine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
3+4-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
3-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4,6-Dinitro-2-methylphenol	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
4-Bromophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4-Chloro-3-methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4-Chloroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4-Chlorophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
4-Nitrophenol	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
Acenaphthene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Acenaphthylene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Acetophenone	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Aniline	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Atrazine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

ACCREDITED IN ACCORDANCE WITH nelac

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Azobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzaldehyde	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzidine	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
Benzo(a)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzo(a)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzo(b)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzo(g,h,i)perylene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzo(k)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Benzoic acid	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
Benzyl alcohol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Biphenyl	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Bis(2-chloroethoxy)methane	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Bis(2-chloroethyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Bis(2-chloroisopropyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Bis(2-ethylhexyl)phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Butyl benzyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Caprolactam	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Carbazole	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Chrysene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Dibenzo(a,h)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Dibenzofuran	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Diethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Dimethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Di-n-butyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Di-n-octyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Fluorene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Hexachlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Hexachlorobutadiene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Hexachlorocyclopentadiene	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
Hexachloroethane	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Indeno(1,2,3-c,d)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Isophorone	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Naphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Nitrobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
N-Nitrosodimethylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
N-Nitrosodi-n-propylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
N-Nitrosodiphenylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Parathion	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Pentachlorophenol	U	1	10		µg/L	1	5/23/2012 2:25:00 PM
Phenanthrene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Phenol	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Pyridine	U	0.5	5.0		µg/L	1	5/23/2012 2:25:00 PM
Surr: 2,4,6-Tribromophenol	102	0	36-133		%REC	1	5/23/2012 2:25:00 PM
Surr: 2-Fluorobiphenyl	117	0	20-131		%REC	1	5/23/2012 2:25:00 PM
Surr: 2-Fluorophenol	58.6	0	16-103		%REC	1	5/23/2012 2:25:00 PM
Surr: 4-Terphenyl-d14	105	0	22-132		%REC	1	5/23/2012 2:25:00 PM
Surr: Nitrobenzene-d5	116	0	19-133		%REC	1	5/23/2012 2:25:00 PM
Surr: Phenol-d6	37.2	0	12-98		%REC	1	5/23/2012 2:25:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3510C**		Analyst: **SB**
Aroclor 1016	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1221	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1232	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1242	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1248	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1254	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1260	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1262	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Aroclor 1268	U	0.03	0.050		µg/L	1	5/24/2012 2:23:00 AM
Surr: DCB	115	0	15-147		%REC	1	5/24/2012 2:23:00 AM
Surr: TCX	84.0	0	19-135		%REC	1	5/24/2012 2:23:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3510C**		Analyst: **SB**
4,4'-DDD	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
4,4'-DDE	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
4,4'-DDT	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Aldrin	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
alpha-BHC	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
beta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Chlordane	U	0.05	1.0		µg/L	1	5/23/2012 7:56:00 PM
Chlorobenzilate	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
DBCP	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
delta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Dieldrin	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Endosulfan I	0.029	0.02	0.40	J	µg/L	1	5/23/2012 7:56:00 PM
Endosulfan II	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Endosulfan sulfate	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Endrin	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Endrin aldehyde	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Endrin ketone	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
gamma-BHC	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Heptachlor	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Heptachlor epoxide	0.043	0.02	0.40	J	µg/L	1	5/23/2012 7:56:00 PM
Hexachlorobenzene	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Hexachlorocyclopentadiene	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Methoxychlor	U	0.02	0.40		µg/L	1	5/23/2012 7:56:00 PM
Toxaphene	U	0.5	10		µg/L	1	5/23/2012 7:56:00 PM
Surr: DCB	84.7	0	11-109		%REC	1	5/23/2012 7:56:00 PM
Surr: TCX	64.2	0	14-110		%REC	1	5/23/2012 7:56:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1**				Analyst: **JP**
Mercury	U	0.0001	0.000200		mg/L	1	5/22/2012 2:23:15 PM
TARGET ANALYTE LIST METALS			**E200.7**		**SW3010A**		Analyst: **JP**
Aluminum	4.00	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Antimony	0.0133	0.005	0.0200	J	mg/L	1	5/24/2012 9:47:41 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/24/2012 9:47:41 AM
Barium	0.0797	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/24/2012 9:47:41 AM
Calcium	16.5	0.005	0.0250		mg/L	1	5/24/2012 9:47:41 AM
Chromium	0.0316	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Copper	0.0245	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Iron	20.7	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Lead	0.00819	0.005	0.0150	J	mg/L	1	5/24/2012 9:47:41 AM
Magnesium	3.67	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Manganese	0.417	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Nickel	0.0262	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Potassium	3.39	0.05	0.100		mg/L	1	5/24/2012 9:47:41 AM
Selenium	U	0.01	0.0250		mg/L	1	5/24/2012 9:47:41 AM
Silver	U	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM
Sodium	4.50	0.005	0.0300		mg/L	1	5/24/2012 9:47:41 AM
Thallium	U	0.01	0.0150		mg/L	1	5/24/2012 9:47:41 AM
Vanadium	0.0124	0.005	0.0200	J	mg/L	1	5/24/2012 9:47:41 AM
Zinc	0.0787	0.005	0.0200		mg/L	1	5/24/2012 9:47:41 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-1
Lab Order:	1205159	**Collection Date:**	5/17/2012 11:41:00 AM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-01F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY-DISSOLVED			**E245.1**		**SW3005A**		Analyst: **JP**
Mercury	0.000250	0.0001	0.000200		mg/L	1	5/22/2012 1:55:59 PM
TARGET ANALYTE LIST METALS-DISSOLVED			**E200.7**		**SW3005A**		Analyst: **JP**
Aluminum	0.0382	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Antimony	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/21/2012 10:16:15 AM
Barium	0.0456	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/21/2012 10:16:15 AM
Calcium	16.7	0.005	0.0250		mg/L	1	5/21/2012 10:16:15 AM
Chromium	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Copper	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Iron	1.97	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Lead	U	0.005	0.0150		mg/L	1	5/21/2012 10:16:15 AM
Magnesium	3.08	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Manganese	0.347	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Nickel	0.00691	0.005	0.0200	J	mg/L	1	5/21/2012 10:16:15 AM
Potassium	2.98	0.05	0.100		mg/L	1	5/21/2012 10:16:15 AM
Selenium	U	0.01	0.0250		mg/L	1	5/21/2012 10:16:15 AM
Silver	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Sodium	4.80	0.005	0.0300		mg/L	1	5/21/2012 10:16:15 AM
Thallium	U	0.01	0.0150		mg/L	1	5/21/2012 10:16:15 AM
Vanadium	U	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM
Zinc	0.0207	0.005	0.0200		mg/L	1	5/21/2012 10:16:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1,1-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1,2,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1,2-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1-Dichloroethane	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,1-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2,3-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2,3-Trichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2,4,5-Tetramethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2,4-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2,4-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2-Dibromo-3-chloropropane	U	0.5	2.0		µg/L	1	5/18/2012 2:34:00 PM
1,2-Dibromoethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2-Dichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,3,5-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,3-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,3-dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,4-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
1,4-Dioxane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
2,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
2-Butanone	U	1.25	2.5		µg/L	1	5/18/2012 2:34:00 PM
2-Chloroethyl vinyl ether	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
2-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
2-Hexanone	U	1.25	2.5		µg/L	1	5/18/2012 2:34:00 PM
2-Propanol	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
4-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
4-Isopropyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
4-Methyl-2-pentanone	U	1.25	2.5		µg/L	1	5/18/2012 2:34:00 PM
Acetone	U	1.25	5.0		µg/L	1	5/18/2012 2:34:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Acrolein	U	5	10		µg/L	1	5/18/2012 2:34:00 PM
Acrylonitrile	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Benzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Bromobenzene	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
Bromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Bromodichloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Bromoform	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Bromomethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:34:00 PM
Carbon disulfide	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Carbon tetrachloride	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Chlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Chlorodifluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Chloroethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:34:00 PM
Chloroform	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Chloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
cis-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
cis-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Dibromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Dibromomethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Dichlorodifluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:34:00 PM
Diisopropyl ether	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Ethanol	U	2.5	5.0		µg/L	1	5/18/2012 2:34:00 PM
Ethyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
Ethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Freon-114	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Hexachlorobutadiene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Isopropyl acetate	U	1	2.0		µg/L	1	5/18/2012 2:34:00 PM
Isopropylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
m,p-Xylene	U	0.5	2.0		µg/L	1	5/18/2012 2:34:00 PM
Methyl Acetate	U	0.5	2.0		µg/L	1	5/18/2012 2:34:00 PM
Methyl tert-butyl ether	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Methylene chloride	2.7	0.25	1.0	B	µg/L	1	5/18/2012 2:34:00 PM
n-Amyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
n-Butyl acetate	U	0.25	2.0		µg/L	1	5/18/2012 2:34:00 PM
n-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
n-Propyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
n-Propylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
o-Xylene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
p-Diethylbenzene	U	0.5	1.0		µg/L	1	5/18/2012 2:34:00 PM
p-Ethyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
sec-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Styrene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
t-Butyl alcohol	U	1	2.0		µg/L	1	5/18/2012 2:34:00 PM
tert-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Tetrachloroethene	U	0.25	2.0		µg/L	1	5/18/2012 2:34:00 PM
Toluene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
trans-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
trans-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Trichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Trichlorofluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Vinyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Vinyl chloride	U	0.25	1.0		µg/L	1	5/18/2012 2:34:00 PM
Surr: 4-Bromofluorobenzene	104	0	63-123		%REC	1	5/18/2012 2:34:00 PM
Surr: Dibromofluoromethane	102	0	68-124		%REC	1	5/18/2012 2:34:00 PM
Surr: Toluene-d8	101	0	67-125		%REC	1	5/18/2012 2:34:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
1,2,4-Trichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
1,2-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
1,3-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
1,4-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4,5-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4,6-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4-Dichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4-Dimethylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4-Dinitrophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,4-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2,6-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Chloronaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Chlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Methylnaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
2-Nitrophenol	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
3,3'-Dichlorobenzidine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
3+4-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
3-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4,6-Dinitro-2-methylphenol	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
4-Bromophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4-Chloro-3-methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4-Chloroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4-Chlorophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
4-Nitrophenol	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
Acenaphthene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Acenaphthylene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Acetophenone	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Aniline	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Atrazine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Azobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzaldehyde	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzidine	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
Benzo(a)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzo(a)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzo(b)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzo(g,h,i)perylene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzo(k)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Benzoic acid	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
Benzyl alcohol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Biphenyl	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Bis(2-chloroethoxy)methane	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Bis(2-chloroethyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Bis(2-chloroisopropyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Bis(2-ethylhexyl)phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Butyl benzyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Caprolactam	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Carbazole	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Chrysene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Dibenzo(a,h)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Dibenzofuran	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Diethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Dimethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Di-n-butyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Di-n-octyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Fluorene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Hexachlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Hexachlorobutadiene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Hexachlorocyclopentadiene	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
Hexachloroethane	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Indeno(1,2,3-c,d)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Isophorone	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Naphthalene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Nitrobenzene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
N-Nitrosodimethylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
N-Nitrosodi-n-propylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
N-Nitrosodiphenylamine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Parathion	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Pentachlorophenol	U	1	10		µg/L	1	5/23/2012 2:50:00 PM
Phenanthrene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Phenol	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Pyrene	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Pyridine	U	0.5	5.0		µg/L	1	5/23/2012 2:50:00 PM
Surr: 2,4,6-Tribromophenol	104	0	36-133		%REC	1	5/23/2012 2:50:00 PM
Surr: 2-Fluorobiphenyl	116	0	20-131		%REC	1	5/23/2012 2:50:00 PM
Surr: 2-Fluorophenol	57.6	0	16-103		%REC	1	5/23/2012 2:50:00 PM
Surr: 4-Terphenyl-d14	111	0	22-132		%REC	1	5/23/2012 2:50:00 PM
Surr: Nitrobenzene-d5	109	0	19-133		%REC	1	5/23/2012 2:50:00 PM
Surr: Phenol-d6	36.1	0	12-98		%REC	1	5/23/2012 2:50:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3510C**		Analyst: **SB**
Aroclor 1016	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1221	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1232	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1242	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1248	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1254	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1260	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1262	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Aroclor 1268	U	0.03	0.050		µg/L	1	5/24/2012 2:47:00 AM
Surr: DCB	132	0	15-147		%REC	1	5/24/2012 2:47:00 AM
Surr: TCX	94.3	0	19-135		%REC	1	5/24/2012 2:47:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3510C**		Analyst: **SB**
4,4'-DDD	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
4,4'-DDE	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
4,4'-DDT	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Aldrin	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
alpha-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
beta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Chlordane	U	0.05	1.0		µg/L	1	5/23/2012 8:10:00 PM
Chlorobenzilate	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
DBCP	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
delta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Dieldrin	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endosulfan I	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endosulfan II	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endosulfan sulfate	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endrin	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endrin aldehyde	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Endrin ketone	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
gamma-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Heptachlor	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Heptachlor epoxide	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Hexachlorobenzene	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Hexachlorocyclopentadiene	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Methoxychlor	U	0.02	0.40		µg/L	1	5/23/2012 8:10:00 PM
Toxaphene	U	0.5	10		µg/L	1	5/23/2012 8:10:00 PM
Surr: DCB	96.6	0	11-109		%REC	1	5/23/2012 8:10:00 PM
Surr: TCX	73.9	0	14-110		%REC	1	5/23/2012 8:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1**				Analyst: **JP**
Mercury	U	0.0001	0.000200		mg/L	1	5/22/2012 2:25:23 PM
TARGET ANALYTE LIST METALS			**E200.7**		**SW3010A**		Analyst: **JP**
Aluminum	0.658	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Antimony	0.0109	0.005	0.0200	J	mg/L	1	5/24/2012 9:49:43 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/24/2012 9:49:43 AM
Barium	0.143	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/24/2012 9:49:43 AM
Calcium	35.5	0.005	0.0250		mg/L	1	5/24/2012 9:49:43 AM
Chromium	0.00853	0.005	0.0200	J	mg/L	1	5/24/2012 9:49:43 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Copper	U	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Iron	8.17	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Lead	U	0.005	0.0150		mg/L	1	5/24/2012 9:49:43 AM
Magnesium	5.11	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Manganese	1.92	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Nickel	0.0192	0.005	0.0200	J	mg/L	1	5/24/2012 9:49:43 AM
Potassium	7.04	0.05	0.100		mg/L	1	5/24/2012 9:49:43 AM
Selenium	U	0.01	0.0250		mg/L	1	5/24/2012 9:49:43 AM
Silver	U	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Sodium	36.3	0.005	0.0300		mg/L	1	5/24/2012 9:49:43 AM
Thallium	U	0.01	0.0150		mg/L	1	5/24/2012 9:49:43 AM
Vanadium	U	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM
Zinc	0.0388	0.005	0.0200		mg/L	1	5/24/2012 9:49:43 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-2
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:16:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-02F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY-DISSOLVED			**E245.1**		**SW3005A**		Analyst: **JP**
Mercury	0.000270	0.0001	0.000200		mg/L	1	5/22/2012 1:58:08 PM
TARGET ANALYTE LIST METALS-DISSOLVED			**E200.7**		**SW3005A**		Analyst: **JP**
Aluminum	0.0228	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Antimony	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/21/2012 10:18:17 AM
Barium	0.147	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/21/2012 10:18:17 AM
Calcium	38.6	0.005	0.0250		mg/L	1	5/21/2012 10:18:17 AM
Chromium	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Copper	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Iron	6.55	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Lead	U	0.005	0.0150		mg/L	1	5/21/2012 10:18:17 AM
Magnesium	5.45	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Manganese	2.04	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Nickel	0.0164	0.005	0.0200	J	mg/L	1	5/21/2012 10:18:17 AM
Potassium	6.95	0.05	0.100		mg/L	1	5/21/2012 10:18:17 AM
Selenium	U	0.01	0.0250		mg/L	1	5/21/2012 10:18:17 AM
Silver	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Sodium	35.4	0.005	0.0300		mg/L	1	5/21/2012 10:18:17 AM
Thallium	U	0.01	0.0150		mg/L	1	5/21/2012 10:18:17 AM
Vanadium	U	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM
Zinc	0.0350	0.005	0.0200		mg/L	1	5/21/2012 10:18:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1,1-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1,2,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1,2-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1-Dichloroethane	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,1-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2,3-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2,3-Trichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2,4,5-Tetramethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2,4-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2,4-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2-Dibromo-3-chloropropane	U	0.5	2.0		µg/L	1	5/18/2012 2:58:00 PM
1,2-Dibromoethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2-Dichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,3,5-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,3-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,3-dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,4-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
1,4-Dioxane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
2,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
2-Butanone	U	1.25	2.5		µg/L	1	5/18/2012 2:58:00 PM
2-Chloroethyl vinyl ether	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
2-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
2-Hexanone	U	1.25	2.5		µg/L	1	5/18/2012 2:58:00 PM
2-Propanol	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
4-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
4-Isopropyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
4-Methyl-2-pentanone	U	1.25	2.5		µg/L	1	5/18/2012 2:58:00 PM
Acetone	U	1.25	5.0		µg/L	1	5/18/2012 2:58:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

ACCREDITED IN ACCORDANCE WITH nelac

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Acrolein	U	5	10		µg/L	1	5/18/2012 2:58:00 PM
Acrylonitrile	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Benzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Bromobenzene	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
Bromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Bromodichloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Bromoform	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Bromomethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:58:00 PM
Carbon disulfide	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Carbon tetrachloride	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Chlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Chlorodifluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Chloroethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:58:00 PM
Chloroform	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Chloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
cis-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
cis-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Dibromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Dibromomethane	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Dichlorodifluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:58:00 PM
Diisopropyl ether	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Ethanol	U	2.5	5.0		µg/L	1	5/18/2012 2:58:00 PM
Ethyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
Ethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Freon-114	U	0.25	1.0	C	µg/L	1	5/18/2012 2:58:00 PM
Hexachlorobutadiene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Isopropyl acetate	U	1	2.0		µg/L	1	5/18/2012 2:58:00 PM
Isopropylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
m,p-Xylene	U	0.5	2.0		µg/L	1	5/18/2012 2:58:00 PM
Methyl Acetate	U	0.5	2.0		µg/L	1	5/18/2012 2:58:00 PM
Methyl tert-butyl ether	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Methylene chloride	2.7	0.25	1.0	B	µg/L	1	5/18/2012 2:58:00 PM
n-Amyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
n-Butyl acetate	U	0.25	2.0		µg/L	1	5/18/2012 2:58:00 PM
n-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
n-Propyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
n-Propylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
o-Xylene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
p-Diethylbenzene	U	0.5	1.0		µg/L	1	5/18/2012 2:58:00 PM
p-Ethyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
sec-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Styrene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
t-Butyl alcohol	U	1	2.0		µg/L	1	5/18/2012 2:58:00 PM
tert-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Tetrachloroethene	U	0.25	2.0		µg/L	1	5/18/2012 2:58:00 PM
Toluene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
trans-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
trans-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Trichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Trichlorofluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 2:58:00 PM
Vinyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Vinyl chloride	U	0.25	1.0		µg/L	1	5/18/2012 2:58:00 PM
Surr: 4-Bromofluorobenzene	96.3	0	63-123		%REC	1	5/18/2012 2:58:00 PM
Surr: Dibromofluoromethane	102	0	68-124		%REC	1	5/18/2012 2:58:00 PM
Surr: Toluene-d8	101	0	67-125		%REC	1	5/18/2012 2:58:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
1,2,4-Trichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
1,2-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
1,3-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
1,4-Dichlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4,5-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4,6-Trichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4-Dichlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4-Dimethylphenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4-Dinitrophenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,4-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2,6-Dinitrotoluene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Chloronaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Chlorophenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Methylnaphthalene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
2-Nitrophenol	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
3,3'-Dichlorobenzidine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
3+4-Methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
3-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4,6-Dinitro-2-methylphenol	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
4-Bromophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4-Chloro-3-methylphenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4-Chloroaniline	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4-Chlorophenyl phenyl ether	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4-Nitroaniline	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
4-Nitrophenol	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
Acenaphthene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Acenaphthylene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Acetophenone	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Aniline	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Anthracene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Atrazine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Azobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzaldehyde	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzidine	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
Benzo(a)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzo(a)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzo(b)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzo(g,h,i)perylene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzo(k)fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Benzoic acid	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
Benzyl alcohol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Biphenyl	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Bis(2-chloroethoxy)methane	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Bis(2-chloroethyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Bis(2-chloroisopropyl)ether	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Bis(2-ethylhexyl)phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Butyl benzyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Caprolactam	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Carbazole	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Chrysene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Dibenzo(a,h)anthracene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Dibenzofuran	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Diethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Dimethyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Di-n-butyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Di-n-octyl phthalate	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Fluoranthene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Fluorene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Hexachlorobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Hexachlorobutadiene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Hexachlorocyclopentadiene	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
Hexachloroethane	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Indeno(1,2,3-c,d)pyrene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Isophorone	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3510C**		Analyst: **LDS**
Naphthalene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Nitrobenzene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
N-Nitrosodimethylamine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
N-Nitrosodi-n-propylamine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
N-Nitrosodiphenylamine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Parathion	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Pentachlorophenol	U	1	10		µg/L	1	5/23/2012 3:15:00 PM
Phenanthrene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Phenol	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Pyrene	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Pyridine	U	0.5	5.0		µg/L	1	5/23/2012 3:15:00 PM
Surr: 2,4,6-Tribromophenol	93.5	0	36-133		%REC	1	5/23/2012 3:15:00 PM
Surr: 2-Fluorobiphenyl	97.8	0	20-131		%REC	1	5/23/2012 3:15:00 PM
Surr: 2-Fluorophenol	61.6	0	16-103		%REC	1	5/23/2012 3:15:00 PM
Surr: 4-Terphenyl-d14	91.5	0	22-132		%REC	1	5/23/2012 3:15:00 PM
Surr: Nitrobenzene-d5	88.8	0	19-133		%REC	1	5/23/2012 3:15:00 PM
Surr: Phenol-d6	42.8	0	12-98		%REC	1	5/23/2012 3:15:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3510C**		Analyst: **SB**
Aroclor 1016	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1221	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1232	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1242	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1248	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1254	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1260	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1262	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Aroclor 1268	U	0.03	0.050		µg/L	1	5/24/2012 3:11:00 AM
Surr: DCB	130	0	15-147		%REC	1	5/24/2012 3:11:00 AM
Surr: TCX	100	0	19-135		%REC	1	5/24/2012 3:11:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3510C**		Analyst: **SB**
4,4'-DDD	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
4,4'-DDE	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
4,4'-DDT	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Aldrin	0.11	0.02	0.40	JP	µg/L	1	5/23/2012 8:24:00 PM
alpha-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
beta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Chlordane	U	0.05	1.0		µg/L	1	5/23/2012 8:24:00 PM
Chlorobenzilate	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
DBCP	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
delta-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Dieldrin	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Endosulfan I	0.12	0.02	0.40	J	µg/L	1	5/23/2012 8:24:00 PM
Endosulfan II	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Endosulfan sulfate	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Endrin	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Endrin aldehyde	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Endrin ketone	0.051	0.02	0.40	J	µg/L	1	5/23/2012 8:24:00 PM
gamma-BHC	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Heptachlor	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Heptachlor epoxide	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Hexachlorobenzene	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Hexachlorocyclopentadiene	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Methoxychlor	U	0.02	0.40		µg/L	1	5/23/2012 8:24:00 PM
Toxaphene	U	0.5	10		µg/L	1	5/23/2012 8:24:00 PM
Surr: DCB	93.1	0	11-109		%REC	1	5/23/2012 8:24:00 PM
Surr: TCX	78.8	0	14-110		%REC	1	5/23/2012 8:24:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1**				Analyst: **JP**
Mercury	0.00155	0.0001	0.000200		mg/L	1	5/22/2012 2:36:12 PM
TARGET ANALYTE LIST METALS			**E200.7**		**SW3010A**		Analyst: **JP**
Aluminum	2.21	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Antimony	U	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/24/2012 9:51:45 AM
Barium	0.0412	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/24/2012 9:51:45 AM
Calcium	15.2	0.005	0.0250		mg/L	1	5/24/2012 9:51:45 AM
Chromium	0.0194	0.005	0.0200	J	mg/L	1	5/24/2012 9:51:45 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Copper	0.0101	0.005	0.0200	J	mg/L	1	5/24/2012 9:51:45 AM
Iron	8.08	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Lead	U	0.005	0.0150		mg/L	1	5/24/2012 9:51:45 AM
Magnesium	2.47	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Manganese	1.27	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Nickel	0.0187	0.005	0.0200	J	mg/L	1	5/24/2012 9:51:45 AM
Potassium	2.70	0.05	0.100		mg/L	1	5/24/2012 9:51:45 AM
Selenium	U	0.01	0.0250		mg/L	1	5/24/2012 9:51:45 AM
Silver	U	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM
Sodium	5.78	0.005	0.0300		mg/L	1	5/24/2012 9:51:45 AM
Thallium	U	0.01	0.0150		mg/L	1	5/24/2012 9:51:45 AM
Vanadium	0.00540	0.005	0.0200	J	mg/L	1	5/24/2012 9:51:45 AM
Zinc	0.0533	0.005	0.0200		mg/L	1	5/24/2012 9:51:45 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank
C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
LOD	Limit of Detection
LOQ	Limit of Quantitation
P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit
S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.	

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	MW-3
Lab Order:	1205159	**Collection Date:**	5/17/2012 12:56:00 PM
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-03F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY-DISSOLVED			**E245.1**		**SW3005A**		Analyst: **JP**
Mercury	0.00108	0.0001	0.000200		mg/L	1	5/22/2012 2:00:17 PM
TARGET ANALYTE LIST METALS-DISSOLVED			**E200.7**		**SW3005A**		Analyst: **JP**
Aluminum	0.0278	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Antimony	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Arsenic	U	0.01	0.0250		mg/L	1	5/21/2012 10:20:19 AM
Barium	0.0261	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Beryllium	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Cadmium	U	0.005	0.0100		mg/L	1	5/21/2012 10:20:19 AM
Calcium	15.7	0.005	0.0250		mg/L	1	5/21/2012 10:20:19 AM
Chromium	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Cobalt	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Copper	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Iron	1.34	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Lead	U	0.005	0.0150		mg/L	1	5/21/2012 10:20:19 AM
Magnesium	2.05	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Manganese	1.22	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Nickel	0.00895	0.005	0.0200	J	mg/L	1	5/21/2012 10:20:19 AM
Potassium	1.99	0.05	0.100		mg/L	1	5/21/2012 10:20:19 AM
Selenium	U	0.01	0.0250		mg/L	1	5/21/2012 10:20:19 AM
Silver	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Sodium	6.20	0.005	0.0300		mg/L	1	5/21/2012 10:20:19 AM
Thallium	U	0.01	0.0150		mg/L	1	5/21/2012 10:20:19 AM
Vanadium	U	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM
Zinc	0.0446	0.005	0.0200		mg/L	1	5/21/2012 10:20:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	Trip Blank
Lab Order:	1205159	**Collection Date:**	5/17/2012
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1,1-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1,2,2-Tetrachloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1,2-Trichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1-Dichloroethane	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,1-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2,3-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2,3-Trichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2,4,5-Tetramethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2,4-Trichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2,4-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2-Dibromo-3-chloropropane	U	0.5	2.0		µg/L	1	5/18/2012 3:23:00 PM
1,2-Dibromoethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2-Dichloroethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,3,5-Trimethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,3-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,3-dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,4-Dichlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
1,4-Dioxane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
2,2-Dichloropropane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
2-Butanone	U	1.25	2.5		µg/L	1	5/18/2012 3:23:00 PM
2-Chloroethyl vinyl ether	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
2-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
2-Hexanone	U	1.25	2.5		µg/L	1	5/18/2012 3:23:00 PM
2-Propanol	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
4-Chlorotoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
4-Isopropyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
4-Methyl-2-pentanone	U	1.25	2.5		µg/L	1	5/18/2012 3:23:00 PM
Acetone	U	1.25	5.0		µg/L	1	5/18/2012 3:23:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	Trip Blank
Lab Order:	1205159	**Collection Date:**	5/17/2012
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Acrolein	U	5	10		µg/L	1	5/18/2012 3:23:00 PM
Acrylonitrile	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Benzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Bromobenzene	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
Bromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Bromodichloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Bromoform	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Bromomethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:23:00 PM
Carbon disulfide	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Carbon tetrachloride	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Chlorobenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Chlorodifluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Chloroethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:23:00 PM
Chloroform	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Chloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
cis-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
cis-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Dibromochloromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Dibromomethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Dichlorodifluoromethane	U	0.25	1.0	C	µg/L	1	5/18/2012 3:23:00 PM
Diisopropyl ether	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Ethanol	U	2.5	5.0		µg/L	1	5/18/2012 3:23:00 PM
Ethyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
Ethylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Freon-114	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Hexachlorobutadiene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Isopropyl acetate	U	1	2.0		µg/L	1	5/18/2012 3:23:00 PM
Isopropylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
m,p-Xylene	U	0.5	2.0		µg/L	1	5/18/2012 3:23:00 PM
Methyl Acetate	U	0.5	2.0		µg/L	1	5/18/2012 3:23:00 PM
Methyl tert-butyl ether	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Methylene chloride	3.5	0.25	1.0	B	µg/L	1	5/18/2012 3:23:00 PM
n-Amyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	**Client Sample ID:**	Trip Blank
Lab Order:	1205159	**Collection Date:**	5/17/2012
Project:	224-01 Merrick Blvd., Queens, NY	**Matrix:**	LIQUID
Lab ID:	1205159-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Naphthalene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
n-Butyl acetate	U	0.25	2.0		µg/L	1	5/18/2012 3:23:00 PM
n-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
n-Propyl acetate	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
n-Propylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
o-Xylene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
p-Diethylbenzene	U	0.5	1.0		µg/L	1	5/18/2012 3:23:00 PM
p-Ethyltoluene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
sec-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Styrene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
t-Butyl alcohol	U	1	2.0		µg/L	1	5/18/2012 3:23:00 PM
tert-Butylbenzene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Tetrachloroethene	U	0.25	2.0		µg/L	1	5/18/2012 3:23:00 PM
Toluene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
trans-1,2-Dichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
trans-1,3-Dichloropropene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Trichloroethene	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Trichlorofluoromethane	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Vinyl acetate	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Vinyl chloride	U	0.25	1.0		µg/L	1	5/18/2012 3:23:00 PM
Surr: 4-Bromofluorobenzene	100	0	63-123		%REC	1	5/18/2012 3:23:00 PM
Surr: Dibromofluoromethane	103	0	68-124		%REC	1	5/18/2012 3:23:00 PM
Surr: Toluene-d8	97.1	0	67-125		%REC	1	5/18/2012 3:23:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
PQL	Practical Quantitation Limit	S	Spike Recovery outside accepted recovery limits
U	Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *24-May-12*

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

Sample ID: **MB-35908**	SampType: **MBLK**	TestCode: **8081_W**	Units: **µg/L**	Prep Date: **5/22/2012**	RunNo: **63584**
Client ID: **PBW**	Batch ID: **35908**	TestNo: **SW8081B**	**SW3510C**	Analysis Date: **5/23/2012**	SeqNo: **896416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	U	0.40									
4,4'-DDE	U	0.40									
4,4'-DDT	U	0.40									
Aldrin	U	0.40									
alpha-BHC	U	0.40									
beta-BHC	U	0.40									
Chlordane	U	1.0									
Chlorobenzilate	U	0.40									
DBCP	U	0.40									
delta-BHC	U	0.40									
Dieldrin	U	0.40									
Endosulfan I	U	0.40									
Endosulfan II	U	0.40									
Endosulfan sulfate	U	0.40									
Endrin	U	0.40									
Endrin aldehyde	U	0.40									
Endrin ketone	U	0.40									
gamma-BHC	U	0.40									
Heptachlor	U	0.40									
Heptachlor epoxide	U	0.40									
Hexachlorobenzene	U	0.40									
Hexachlorocyclopentadiene	U	0.40									
Methoxychlor	U	0.40									
Toxaphene	U	10									
Surr: DCB	0.39		0.5000		78.3	11	109				
Surr: TCX	0.32		0.5000		64.3	14	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

Sample ID: **LCS-35908** SampType: **LCS** TestCode: **8081_W** Units: **µg/L** Prep Date: **5/22/2012** RunNo: **63584**
Client ID: **LCSW** Batch ID: **35908** TestNo: **SW8081B** **SW3510C** Analysis Date: **5/23/2012** SeqNo: **896417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.082	0.40	0.1000	0	82.2	33	138				J
4,4´-DDE	0.070	0.40	0.1000	0	70.3	25	122				J
4,4´-DDT	0.092	0.40	0.1000	0	92.2	26	137				J
Aldrin	0.093	0.40	0.1000	0	93.3	30	135				J
alpha-BHC	0.088	0.40	0.1000	0	87.6	31	139				J
beta-BHC	0.11	0.40	0.1000	0	115	27	139				J
Chlorobenzilate	0.094	0.40	0.1000	0	94.1	20	120				J
DBCP	0.12	0.40	0.1000	0	123	20	124				J
delta-BHC	0.11	0.40	0.1000	0	108	25	134				J
Dieldrin	0.091	0.40	0.1000	0	90.6	25	125				J
Endosulfan I	0.090	0.40	0.1000	0	89.9	22	126				J
Endosulfan II	0.090	0.40	0.1000	0	90.0	23	129				J
Endosulfan sulfate	0.097	0.40	0.1000	0	96.7	25	135				J
Endrin	0.10	0.40	0.1000	0	102	22	134				J
Endrin aldehyde	0.099	0.40	0.1000	0	98.6	20	128				J
Endrin ketone	0.11	0.40	0.1000	0	114	25	136				J
gamma-BHC	0.095	0.40	0.1000	0	95.2	30	131				J
Heptachlor	0.11	0.40	0.1000	0	114	25	125				J
Heptachlor epoxide	0.10	0.40	0.1000	0	103	21	127				J
Hexachlorobenzene	0.11	0.40	0.1000	0	114	23	131				J
Hexachlorocyclopentadiene	0.11	0.40	0.1000	0	108	22	138				J
Methoxychlor	0.11	0.40	0.1000	0	109	20	130				J
Surr: DCB	0.42		0.5000		83.6	11	109				
Surr: TCX	0.38		0.5000		76.5	14	110				

Sample ID: **LCSD-35908** SampType: **LCSD** TestCode: **8081_W** Units: **µg/L** Prep Date: **5/22/2012** RunNo: **63584**
Client ID: **LCSS02** Batch ID: **35908** TestNo: **SW8081B** **SW3510C** Analysis Date: **5/23/2012** SeqNo: **896418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.087	0.40	0.1000	0	87.1	33	138	0	0	20	J
4,4´-DDE	0.069	0.40	0.1000	0	69.2	25	122	0	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

Sample ID: LCSD-35908	SampType: LCSD	TestCode: 8081_W	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63584
Client ID: LCSS02	Batch ID: 35908	TestNo: SW8081B	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896418

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDT	0.12	0.40	0.1000	0	123	26	137	0	0	20	J
Aldrin	0.089	0.40	0.1000	0	89.0	30	135	0	0	20	J
alpha-BHC	0.093	0.40	0.1000	0	92.6	31	139	0	0	20	J
beta-BHC	0.11	0.40	0.1000	0	115	27	139	0	0	20	J
Chlorobenzilate	0.074	0.40	0.1000	0	73.9	20	120	0	0	20	J
DBCP	0.12	0.40	0.1000	0	121	20	124	0	0	20	J
delta-BHC	0.11	0.40	0.1000	0	106	25	134	0	0	20	J
Dieldrin	0.10	0.40	0.1000	0	102	25	125	0	0	20	J
Endosulfan I	0.089	0.40	0.1000	0	88.8	22	126	0	0	20	J
Endosulfan II	0.080	0.40	0.1000	0	79.6	23	129	0	0	20	J
Endosulfan sulfate	0.11	0.40	0.1000	0	110	25	135	0	0	20	J
Endrin	0.12	0.40	0.1000	0	115	22	134	0	0	20	J
Endrin aldehyde	0.090	0.40	0.1000	0	89.8	20	128	0	0	20	J
Endrin ketone	0.098	0.40	0.1000	0	97.5	25	136	0	0	20	J
gamma-BHC	0.099	0.40	0.1000	0	99.3	30	131	0	0	20	J
Heptachlor	0.11	0.40	0.1000	0	110	25	125	0	0	20	J
Heptachlor epoxide	0.098	0.40	0.1000	0	97.5	21	127	0	0	20	J
Hexachlorobenzene	0.11	0.40	0.1000	0	108	23	131	0	0	20	J
Hexachlorocyclopentadiene	0.13	0.40	0.1000	0	128	22	138	0	0	20	J
Methoxychlor	0.096	0.40	0.1000	0	95.7	20	130	0	0	20	J
Surr: DCB	0.41		0.5000		82.2	11	109		0	0	
Surr: TCX	0.37		0.5000		73.7	14	110		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W

Sample ID: MB-35907	SampType: MBLK	TestCode: 8082_W	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63584
Client ID: PBW	Batch ID: 35907	TestNo: SW8082A	SW3510C	Analysis Date: 5/24/2012	SeqNo: 896528

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	U	0.050									
Aroclor 1221	U	0.050									
Aroclor 1232	U	0.050									
Aroclor 1242	U	0.050									
Aroclor 1248	U	0.050									
Aroclor 1254	U	0.050									
Aroclor 1260	U	0.050									
Aroclor 1262	U	0.050									
Aroclor 1268	U	0.050									
Surr: DCB	0.62		0.5000		124	15	147				
Surr: TCX	0.41		0.5000		81.4	19	135				

Sample ID: LCS-35907	SampType: LCS	TestCode: 8082_W	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63584
Client ID: LCSW	Batch ID: 35907	TestNo: SW8082A	SW3510C	Analysis Date: 5/24/2012	SeqNo: 896529

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	0.98	0.050	1.000	0	98.1	30	130				
Surr: DCB	0.60		0.5000		120	15	147				
Surr: TCX	0.46		0.5000		92.9	19	135				

Sample ID: LCSD-35907	SampType: LCSD	TestCode: 8082_W	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63584
Client ID: LCSS02	Batch ID: 35907	TestNo: SW8082A	SW3510C	Analysis Date: 5/24/2012	SeqNo: 896530

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	1.0	0.050	1.000	0	105	30	130	0.9809	6.50	20	
Surr: DCB	0.62		0.5000		125	15	147		0	0	
Surr: TCX	0.50		0.5000		99.9	19	135		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: **MB-35906**	SampType: **MBLK**	TestCode: **8270_w**	Units: **µg/L**	Prep Date: **5/22/2012**	RunNo: **63597**
Client ID: **PBW**	Batch ID: **35906**	TestNo: **SW8270D**	**SW3510C**	Analysis Date: **5/23/2012**	SeqNo: **896296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,4-Dichlorobenzene	U	5.0									
2,4,5-Trichlorophenol	U	5.0									
2,4,6-Trichlorophenol	U	5.0									
2,4-Dichlorophenol	U	5.0									
2,4-Dimethylphenol	U	5.0									
2,4-Dinitrophenol	U	5.0									
2,4-Dinitrotoluene	U	5.0									
2,6-Dinitrotoluene	U	5.0									
2-Chloronaphthalene	U	5.0									
2-Chlorophenol	U	5.0									
2-Methylnaphthalene	U	5.0									
2-Methylphenol	U	5.0									
2-Nitroaniline	U	5.0									
2-Nitrophenol	U	10									
3,3´-Dichlorobenzidine	U	5.0									
3+4-Methylphenol	U	5.0									
3-Nitroaniline	U	5.0									
4,6-Dinitro-2-methylphenol	U	10									
4-Bromophenyl phenyl ether	U	5.0									
4-Chloro-3-methylphenol	U	5.0									
4-Chloroaniline	U	5.0									
4-Chlorophenyl phenyl ether	U	5.0									
4-Nitroaniline	U	5.0									
4-Nitrophenol	U	10									
Acenaphthene	U	5.0									
Acenaphthylene	U	5.0									
Acetophenone	U	5.0									
Aniline	U	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: **MB-35906**	SampType: **MBLK**	TestCode: **8270_w**	Units: **µg/L**	Prep Date: **5/22/2012**	RunNo: **63597**
Client ID: **PBW**	Batch ID: **35906**	TestNo: **SW8270D**	**SW3510C**	Analysis Date: **5/23/2012**	SeqNo: **896296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	U	5.0									
Atrazine	U	5.0									
Azobenzene	U	5.0									
Benzaldehyde	U	5.0									
Benzidine	U	10									
Benzo(a)anthracene	U	5.0									
Benzo(a)pyrene	U	5.0									
Benzo(b)fluoranthene	U	5.0									
Benzo(g,h,i)perylene	U	5.0									
Benzo(k)fluoranthene	U	5.0									
Benzoic acid	U	10									
Benzyl alcohol	U	5.0									
Biphenyl	U	5.0									
Bis(2-chloroethoxy)methane	U	5.0									
Bis(2-chloroethyl)ether	U	5.0									
Bis(2-chloroisopropyl)ether	U	5.0									
Bis(2-ethylhexyl)phthalate	U	5.0									
Butyl benzyl phthalate	U	5.0									
Caprolactam	U	5.0									
Carbazole	U	5.0									
Chrysene	U	5.0									
Dibenzo(a,h)anthracene	U	5.0									
Dibenzofuran	U	5.0									
Diethyl phthalate	U	5.0									
Dimethyl phthalate	U	5.0									
Di-n-butyl phthalate	U	5.0									
Di-n-octyl phthalate	U	5.0									
Fluoranthene	U	5.0									
Fluorene	U	5.0									
Hexachlorobenzene	U	5.0									
Hexachlorobutadiene	U	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: MB-35906	SampType: MBLK	TestCode: 8270_w	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63597
Client ID: PBW	Batch ID: 35906	TestNo: SW8270D	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896296

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorocyclopentadiene	U	10									
Hexachloroethane	U	5.0									
Indeno(1,2,3-c,d)pyrene	U	5.0									
Isophorone	U	5.0									
Naphthalene	U	5.0									
Nitrobenzene	U	5.0									
N-Nitrosodimethylamine	U	5.0									
N-Nitrosodi-n-propylamine	U	5.0									
N-Nitrosodiphenylamine	U	5.0									
Parathion	U	5.0									
Pentachlorophenol	U	10									
Phenanthrene	U	5.0									
Phenol	U	5.0									
Pyrene	U	5.0									
Pyridine	U	5.0									
Surr: 2,4,6-Tribromophenol	36		40.00		90.1	36	133				
Surr: 2-Fluorobiphenyl	18		20.00		92.1	20	131				
Surr: 2-Fluorophenol	20		40.00		48.9	16	103				
Surr: 4-Terphenyl-d14	20		20.00		101	22	132				
Surr: Nitrobenzene-d5	19		20.00		92.9	19	133				
Surr: Phenol-d6	12		40.00		30.5	12	98				

Sample ID: LCS-35906	SampType: LCS	TestCode: 8270_w	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63597
Client ID: LCSW	Batch ID: 35906	TestNo: SW8270D	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	17	5.0	20.00	0	84.1	38	124				
1,2-Dichlorobenzene	18	5.0	20.00	0	91.6	46	118				
1,3-Dichlorobenzene	18	5.0	20.00	0	88.1	33	126				
1,4-Dichlorobenzene	19	5.0	20.00	0	92.6	35	123				
2,4,5-Trichlorophenol	20	5.0	20.00	0	100	60	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: LCS-35906	SampType: LCS	TestCode: 8270_w	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63597
Client ID: LCSW	Batch ID: 35906	TestNo: SW8270D	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	19	5.0	20.00	0	96.8	59	121				
2,4-Dichlorophenol	18	5.0	20.00	0	91.4	51	119				
2,4-Dimethylphenol	14	5.0	20.00	0	72.4	50	119				
2,4-Dinitrotoluene	23	5.0	20.00	0	114	32	137				
2,6-Dinitrotoluene	19	5.0	20.00	0	96.1	53	123				
2-Chloronaphthalene	18	5.0	20.00	0	90.9	58	118				
2-Chlorophenol	17	5.0	20.00	0	86.1	34	122				
2-Methylnaphthalene	20	5.0	20.00	0	98.7	30	130				
2-Methylphenol	14	5.0	20.00	0	71.5	30	130				
2-Nitroaniline	15	5.0	20.00	0	75.9	30	130				
2-Nitrophenol	20	10	20.00	0	99.3	59	117				
3+4-Methylphenol	13	5.0	20.00	0	64.4	30	130				
3-Nitroaniline	20	5.0	20.00	0	97.5	30	130				
4-Bromophenyl phenyl ether	18	5.0	20.00	0	91.9	54	122				
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.5	41	123				
4-Chloroaniline	11	5.0	20.00	0	54.2	30	130				
4-Chlorophenyl phenyl ether	19	5.0	20.00	0	95.6	65	125				
4-Nitroaniline	18	5.0	20.00	0	89.1	30	130				
4-Nitrophenol	11	10	20.00	0	54.1	10	95				
Acenaphthene	20	5.0	20.00	0	99.2	47	127				
Acenaphthylene	19	5.0	20.00	0	95.0	43	130				
Anthracene	20	5.0	20.00	0	102	57	122				
Azobenzene	18	5.0	20.00	0	88.3	30	130				
Benzo(a)anthracene	21	5.0	20.00	0	106	59	117				
Benzo(a)pyrene	19	5.0	20.00	0	95.8	57	122				
Benzo(b)fluoranthene	20	5.0	20.00	0	102	31	134				
Benzo(k)fluoranthene	18	5.0	20.00	0	91.9	56	126				
Benzyl alcohol	16	5.0	20.00	0	77.8	20	130				
Bis(2-chloroethoxy)methane	14	5.0	20.00	0	67.6	62	118				
Bis(2-chloroethyl)ether	17	5.0	20.00	0	87.1	54	129				
Bis(2-chloroisopropyl)ether	16	5.0	20.00	0	81.7	55	138				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: LCS-35906	SampType: LCS	TestCode: 8270_w	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63597
Client ID: LCSW	Batch ID: 35906	TestNo: SW8270D	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	21	5.0	20.00	0	106	60	138				
Butyl benzyl phthalate	21	5.0	20.00	0	106	66	124				
Carbazole	26	5.0	20.00	0	129	20	130				
Chrysene	17	5.0	20.00	0	86.8	62	125				
Dibenzofuran	19	5.0	20.00	0	96.6	30	130				
Diethyl phthalate	21	5.0	20.00	0	104	65	131				
Dimethyl phthalate	19	5.0	20.00	0	94.8	64	128				
Di-n-butyl phthalate	22	5.0	20.00	0	111	58	134				
Di-n-octyl phthalate	20	5.0	20.00	0	101	61	131				
Fluoranthene	23	5.0	20.00	0	117	55	134				
Fluorene	21	5.0	20.00	0	105	60	127				
Hexachlorobenzene	18	5.0	20.00	0	89.1	59	134				
Hexachlorobutadiene	16	5.0	20.00	0	78.7	49	127				
Hexachloroethane	20	5.0	20.00	0	99.5	40	130				
Indeno(1,2,3-c,d)pyrene	20	5.0	20.00	0	100	64	132				
Isophorone	16	5.0	20.00	0	81.2	64	124				
Naphthalene	19	5.0	20.00	0	94.2	54	121				
Nitrobenzene	17	5.0	20.00	0	82.6	60	120				
N-Nitrosodimethylamine	8.9	5.0	20.00	0	44.5	14	120				
N-Nitrosodi-n-propylamine	17	5.0	20.00	0	84.4	41	135				
Pentachlorophenol	22	10	20.00	0	112	30	139				
Phenanthrene	22	5.0	20.00	0	110	62	124				
Phenol	6.8	5.0	20.00	0	34.1	6	104				
Pyrene	19	5.0	20.00	0	96.9	35	137				
Pyridine	6.6	5.0	20.00	0	33.1	25	125				
Surr: 2,4,6-Tribromophenol	36		40.00		90.8	36	133				
Surr: 2-Fluorobiphenyl	20		20.00		102	20	131				
Surr: 2-Fluorophenol	20		40.00		50.1	16	103				
Surr: 4-Terphenyl-d14	20		20.00		102	22	132				
Surr: Nitrobenzene-d5	19		20.00		95.9	19	133				
Surr: Phenol-d6	13		40.00		33.5	12	98				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: **LCSD-35906**	SampType: **LCSD**	TestCode: **8270_w**	Units: **µg/L**	Prep Date: **5/22/2012**	RunNo: **63597**
Client ID: **LCSS02**	Batch ID: **35906**	TestNo: **SW8270D**	**SW3510C**	Analysis Date: **5/23/2012**	SeqNo: **896298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	16	5.0	20.00	0	80.4	38	124	16.81	4.49	20	
1,2-Dichlorobenzene	16	5.0	20.00	0	79.1	46	118	18.32	14.7	20	
1,3-Dichlorobenzene	16	5.0	20.00	0	80.1	33	126	17.61	9.48	20	
1,4-Dichlorobenzene	16	5.0	20.00	0	82.0	35	123	18.51	12.1	20	
2,4,5-Trichlorophenol	18	5.0	20.00	0	88.9	60	120	20.06	12.0	20	
2,4,6-Trichlorophenol	18	5.0	20.00	0	89.3	59	121	19.37	8.11	20	
2,4-Dichlorophenol	17	5.0	20.00	0	85.2	51	119	18.28	6.96	20	
2,4-Dimethylphenol	14	5.0	20.00	0	71.5	50	119	14.48	1.23	20	
2,4-Dinitrotoluene	22	5.0	20.00	0	109	32	137	22.79	4.34	20	
2,6-Dinitrotoluene	20	5.0	20.00	0	100	53	123	19.23	4.11	20	
2-Chloronaphthalene	18	5.0	20.00	0	88.4	58	118	18.18	2.74	20	
2-Chlorophenol	16	5.0	20.00	0	77.6	34	122	17.22	10.4	20	
2-Methylnaphthalene	18	5.0	20.00	0	90.5	30	130	19.74	8.68	20	
2-Methylphenol	14	5.0	20.00	0	68.4	30	130	14.30	4.43	20	
2-Nitroaniline	15	5.0	20.00	0	73.5	30	130	15.17	3.12	20	
2-Nitrophenol	18	10	20.00	0	91.5	59	117	19.87	8.23	20	
3+4-Methylphenol	13	5.0	20.00	0	64.6	30	130	12.87	0.378	20	
3-Nitroaniline	17	5.0	20.00	0	85.3	30	130	19.50	13.3	20	
4-Bromophenyl phenyl ether	17	5.0	20.00	0	85.1	54	122	18.39	7.71	20	
4-Chloro-3-methylphenol	18	5.0	20.00	0	89.9	41	123	18.29	1.75	20	
4-Chloroaniline	9.8	5.0	20.00	0	48.8	30	130	10.83	10.3	20	
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	86.0	65	125	19.12	10.6	20	
4-Nitroaniline	17	5.0	20.00	0	83.8	30	130	17.82	6.20	20	
4-Nitrophenol	12	10	20.00	0	59.7	10	95	10.81	9.89	20	
Acenaphthene	19	5.0	20.00	0	95.1	47	127	19.85	4.23	20	
Acenaphthylene	18	5.0	20.00	0	88.5	43	130	19.00	7.09	20	
Anthracene	20	5.0	20.00	0	97.6	57	122	20.38	4.28	20	
Azobenzene	17	5.0	20.00	0	83.0	30	130	17.66	6.21	20	
Benzo(a)anthracene	20	5.0	20.00	0	98.7	59	117	21.28	7.53	20	
Benzo(a)pyrene	18	5.0	20.00	0	91.1	57	122	19.16	5.04	20	
Benzo(b)fluoranthene	21	5.0	20.00	0	103	31	134	20.41	1.22	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: LCSD-35906	SampType: LCSD	TestCode: 8270_w	Units: µg/L	Prep Date: 5/22/2012	RunNo: 63597
Client ID: LCSS02	Batch ID: 35906	TestNo: SW8270D	SW3510C	Analysis Date: 5/23/2012	SeqNo: 896298

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	16	5.0	20.00	0	79.9	56	126	18.38	14.0	20	
Benzyl alcohol	14	5.0	20.00	0	67.5	20	130	15.57	14.2	20	
Bis(2-chloroethoxy)methane	13	5.0	20.00	0	64.0	62	118	13.51	5.34	20	
Bis(2-chloroethyl)ether	15	5.0	20.00	0	76.7	54	129	17.41	12.7	20	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.9	55	138	16.33	12.8	20	
Bis(2-ethylhexyl)phthalate	19	5.0	20.00	0	94.9	60	138	21.16	10.8	20	
Butyl benzyl phthalate	20	5.0	20.00	0	99.6	66	124	21.13	5.88	20	
Carbazole	25	5.0	20.00	0	125	20	130	25.73	2.96	20	
Chrysene	17	5.0	20.00	0	85.4	62	125	17.35	1.58	20	
Dibenzofuran	18	5.0	20.00	0	91.7	30	130	19.32	5.15	20	
Diethyl phthalate	20	5.0	20.00	0	97.8	65	131	20.89	6.52	20	
Dimethyl phthalate	18	5.0	20.00	0	90.1	64	128	18.97	5.16	20	
Di-n-butyl phthalate	20	5.0	20.00	0	101	58	134	22.14	9.06	20	
Di-n-octyl phthalate	19	5.0	20.00	0	93.9	61	131	20.17	7.12	20	
Fluoranthene	22	5.0	20.00	0	112	55	134	23.47	4.30	20	
Fluorene	19	5.0	20.00	0	95.2	60	127	21.10	10.3	20	
Hexachlorobenzene	19	5.0	20.00	0	94.1	59	134	17.82	5.46	20	
Hexachlorobutadiene	14	5.0	20.00	0	71.4	49	127	15.73	9.72	20	
Hexachloroethane	17	5.0	20.00	0	85.4	40	130	19.90	15.3	20	
Indeno(1,2,3-c,d)pyrene	19	5.0	20.00	0	93.0	64	132	20.01	7.23	20	
Isophorone	15	5.0	20.00	0	75.0	64	124	16.24	7.94	20	
Naphthalene	18	5.0	20.00	0	87.8	54	121	18.84	7.06	20	
Nitrobenzene	16	5.0	20.00	0	80.3	60	120	16.53	2.86	20	
N-Nitrosodimethylamine	9.3	5.0	20.00	0	46.4	14	120	8.894	4.21	20	
N-Nitrosodi-n-propylamine	15	5.0	20.00	0	75.5	41	135	16.89	11.2	20	
Pentachlorophenol	22	10	20.00	0	112	30	139	22.44	0.330	20	
Phenanthrene	20	5.0	20.00	0	99.4	62	124	21.95	9.91	20	
Phenol	6.5	5.0	20.00	0	32.6	6	104	6.815	4.53	20	
Pyrene	18	5.0	20.00	0	92.0	35	137	19.38	5.17	20	
Pyridine	6.5	5.0	20.00	0	32.6	25	125	6.612	1.45	20	
Surr: 2,4,6-Tribromophenol	36		40.00		89.6	36	133		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_w

Sample ID: **LCSD-35906**	SampType: **LCSD**	TestCode: **8270_w**	Units: **µg/L**	Prep Date: **5/22/2012**	RunNo: **63597**
Client ID: **LCSS02**	Batch ID: **35906**	TestNo: **SW8270D**	**SW3510C**	Analysis Date: **5/23/2012**	SeqNo: **896298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	19		20.00		93.1	20	131		0	20	
Surr: 2-Fluorophenol	18		40.00		45.9	16	103		0	20	
Surr: 4-Terphenyl-d14	20		20.00		101	22	132		0	20	
Surr: Nitrobenzene-d5	19		20.00		92.7	19	133		0	20	
Surr: Phenol-d6	12		40.00		30.2	12	98		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **V624LCS-051812YW** SampType: **LCS** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **LCSW** Batch ID: **R63599** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	44	1.0	50.00	0	88.5	38	136				
1,1,2,2-Tetrachloroethane	44	1.0	50.00	0	88.5	50	124				
1,1,2-Trichloroethane	43	1.0	50.00	0	85.7	52	128				
1,1-Dichloroethane	44	1.0	50.00	0	88.5	55	123				
1,1-Dichloroethene	52	1.0	50.00	0	103	48	128				
1,2-Dichlorobenzene	43	1.0	50.00	0	85.7	59	123				
1,2-Dichloroethane	43	1.0	50.00	0	86.0	52	129				
1,2-Dichloropropane	41	1.0	50.00	0	81.4	58	124				
1,3-Dichlorobenzene	43	1.0	50.00	0	85.2	51	124				
1,4-Dichlorobenzene	41	1.0	50.00	0	81.7	54	128				
2-Chloroethyl vinyl ether	42	1.0	50.00	0	83.9	25	141				
Benzene	41	1.0	50.00	0	82.1	53	131				
Bromodichloromethane	42	1.0	50.00	0	83.9	54	126				
Bromoform	46	1.0	50.00	0	91.4	53	127				
Bromomethane	42	1.0	50.00	0	84.7	42	150				C
Carbon tetrachloride	45	1.0	50.00	0	89.5	46	135				
Chlorobenzene	44	1.0	50.00	0	87.4	53	121				
Chloroethane	45	1.0	50.00	0	89.7	40	145				C
Chloroform	42	1.0	50.00	0	83.3	41	135				
Chloromethane	42	1.0	50.00	0	84.0	32	149				
cis-1,3-Dichloropropene	40	1.0	50.00	0	80.7	46	128				
Dibromochloromethane	44	1.0	50.00	0	87.5	42	124				
Ethylbenzene	44	1.0	50.00	0	88.6	52	135				
Methylene chloride	47	1.0	50.00	0	94.6	35	137				B
Tetrachloroethene	37	2.0	50.00	0	74.2	26	126				
Toluene	40	1.0	50.00	0	80.4	51	130				
trans-1,2-Dichloroethene	48	1.0	50.00	0	95.2	49	125				
trans-1,3-Dichloropropene	37	1.0	50.00	0	74.6	43	125				
Trichloroethene	43	1.0	50.00	0	86.0	47	127				
Trichlorofluoromethane	60	1.0	50.00	0	119	50	152				C
Vinyl chloride	48	1.0	50.00	0	96.0	50	149				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **V624LCS-051812YW** SampType: **LCS** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **LCSW** Batch ID: **R63599** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50		50.00		100	63	123				
Surr: Dibromofluoromethane	49		50.00		98.6	68	124				
Surr: Toluene-d8	48		50.00		96.5	67	125				

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	1.0									
1,1,1-Trichloroethane	U	1.0									
1,1,2,2-Tetrachloroethane	U	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0									
1,1,2-Trichloroethane	U	1.0									
1,1-Dichloroethane	U	1.0									
1,1-Dichloroethene	U	1.0									
1,1-Dichloropropene	U	1.0									
1,2,3-Trichlorobenzene	U	1.0									
1,2,3-Trichloropropane	U	1.0									
1,2,4,5-Tetramethylbenzene	U	1.0									
1,2,4-Trichlorobenzene	U	1.0									
1,2,4-Trimethylbenzene	U	1.0									
1,2-Dibromo-3-chloropropane	U	2.0									
1,2-Dibromoethane	U	1.0									
1,2-Dichlorobenzene	U	1.0									
1,2-Dichloroethane	U	1.0									
1,2-Dichloropropane	U	1.0									
1,3,5-Trimethylbenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,3-dichloropropane	U	1.0									
1,4-Dichlorobenzene	U	1.0									
1,4-Dioxane	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	U	1.0									
2-Butanone	U	2.5									
2-Chloroethyl vinyl ether	U	1.0									
2-Chlorotoluene	U	1.0									
2-Hexanone	U	2.5									
2-Propanol	U	1.0									
4-Chlorotoluene	U	1.0									
4-Isopropyltoluene	U	1.0									
4-Methyl-2-pentanone	U	2.5									
Acetone	U	5.0									
Acrolein	U	10									
Acrylonitrile	U	1.0									
Benzene	U	1.0									
Bromobenzene	U	1.0									
Bromochloromethane	U	1.0									
Bromodichloromethane	U	1.0									
Bromoform	U	1.0									
Bromomethane	U	1.0									C
Carbon disulfide	U	1.0									
Carbon tetrachloride	U	1.0									
Chlorobenzene	U	1.0									
Chlorodifluoromethane	U	1.0									
Chloroethane	U	1.0									C
Chloroform	U	1.0									
Chloromethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
cis-1,3-Dichloropropene	U	1.0									
Dibromochloromethane	U	1.0									
Dibromomethane	U	1.0									
Dichlorodifluoromethane	U	1.0									C
Diisopropyl ether	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	U	5.0									
Ethyl acetate	U	1.0									
Ethylbenzene	U	1.0									
Freon-114	U	1.0									C
Hexachlorobutadiene	U	1.0									
Isopropyl acetate	U	2.0									
Isopropylbenzene	U	1.0									
m,p-Xylene	U	2.0									
Methyl Acetate	U	2.0									
Methyl tert-butyl ether	U	1.0									
Methylene chloride	3.8	1.0									
n-Amyl acetate	U	1.0									
Naphthalene	U	1.0									
n-Butyl acetate	U	2.0									
n-Butylbenzene	U	1.0									
n-Propyl acetate	U	1.0									
n-Propylbenzene	U	1.0									
o-Xylene	U	1.0									
p-Diethylbenzene	U	1.0									
p-Ethyltoluene	U	1.0									
sec-Butylbenzene	U	1.0									
Styrene	U	1.0									
t-Butyl alcohol	U	2.0									
tert-Butylbenzene	U	1.0									
Tetrachloroethene	U	2.0									
Toluene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
trans-1,3-Dichloropropene	U	1.0									
Trichloroethene	U	1.0									
Trichlorofluoromethane	U	1.0									C
Vinyl acetate	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-051812YW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date: 5/18/2012	RunNo: 63599
Client ID: PBW	Batch ID: R63599	TestNo: SW8260C		Analysis Date: 5/18/2012	SeqNo: 896308

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		100	63	123				
Surr: Dibromofluoromethane	48		50.00		96.4	68	124				
Surr: Toluene-d8	49		50.00		97.5	67	125				

Sample ID: V624LCS-051812YW	SampType: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date: 5/18/2012	RunNo: 63599
Client ID: LCSW	Batch ID: R63599A	TestNo: SW8260C		Analysis Date: 5/18/2012	SeqNo: 896311

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	43	1.0	50.00	0	86.3	38	136				
1,1,2,2-Tetrachloroethane	40	1.0	50.00	0	79.6	50	124				
1,1,2-Trichloroethane	41	1.0	50.00	0	82.5	52	128				
1,1-Dichloroethane	38	1.0	50.00	0	76.6	55	123				
1,1-Dichloroethene	47	1.0	50.00	0	94.7	48	128				
1,2-Dichlorobenzene	40	1.0	50.00	0	79.6	59	123				
1,2-Dichloroethane	44	1.0	50.00	0	87.1	52	129				
1,2-Dichloropropane	39	1.0	50.00	0	77.8	58	124				
1,3-Dichlorobenzene	40	1.0	50.00	0	79.6	51	124				
1,4-Dichlorobenzene	39	1.0	50.00	0	78.2	54	128				
2-Chloroethyl vinyl ether	36	1.0	50.00	0	71.9	25	141				
Benzene	38	1.0	50.00	0	76.7	53	131				
Bromodichloromethane	40	1.0	50.00	0	79.1	54	126				
Bromoform	43	1.0	50.00	0	85.8	53	127				
Bromomethane	43	1.0	50.00	0	86.3	42	150				C
Carbon tetrachloride	44	1.0	50.00	0	87.4	46	135				
Chlorobenzene	41	1.0	50.00	0	81.2	53	121				
Chloroethane	44	1.0	50.00	0	87.1	40	145				C
Chloroform	39	1.0	50.00	0	78.9	41	135				
Chloromethane	40	1.0	50.00	0	80.5	32	149				
cis-1,3-Dichloropropene	39	1.0	50.00	0	78.4	46	128				
Dibromochloromethane	44	1.0	50.00	0	87.5	42	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **V624LCS-051812YW** SampType: **LCS** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **LCSW** Batch ID: **R63599A** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	42	1.0	50.00	0	83.2	52	135				
Methylene chloride	39	1.0	50.00	0	78.0	35	137				B
Tetrachloroethene	37	2.0	50.00	0	74.5	26	126				
Toluene	39	1.0	50.00	0	78.8	51	130				
trans-1,2-Dichloroethene	41	1.0	50.00	0	81.7	49	125				
trans-1,3-Dichloropropene	36	1.0	50.00	0	71.5	43	125				
Trichloroethene	40	1.0	50.00	0	80.4	47	127				
Trichlorofluoromethane	59	1.0	50.00	0	117	50	152				
Vinyl chloride	46	1.0	50.00	0	92.4	50	149				
Surr: 4-Bromofluorobenzene	50		50.00		99.0	63	123				
Surr: Dibromofluoromethane	53		50.00		106	68	124				
Surr: Toluene-d8	50		50.00		99.6	67	125				

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599A** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	1.0									
1,1,1-Trichloroethane	U	1.0									
1,1,2,2-Tetrachloroethane	U	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0									
1,1,2-Trichloroethane	U	1.0									
1,1-Dichloroethane	U	1.0									
1,1-Dichloroethene	U	1.0									
1,1-Dichloropropene	U	1.0									
1,2,3-Trichlorobenzene	U	1.0									
1,2,3-Trichloropropane	U	1.0									
1,2,4,5-Tetramethylbenzene	U	1.0									
1,2,4-Trichlorobenzene	U	1.0									
1,2,4-Trimethylbenzene	U	1.0									
1,2-Dibromo-3-chloropropane	U	2.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599A** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	U	1.0									
1,2-Dichlorobenzene	U	1.0									
1,2-Dichloroethane	U	1.0									
1,2-Dichloropropane	U	1.0									
1,3,5-Trimethylbenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,3-dichloropropane	U	1.0									
1,4-Dichlorobenzene	U	1.0									
1,4-Dioxane	U	1.0									
2,2-Dichloropropane	U	1.0									
2-Butanone	U	2.5									
2-Chloroethyl vinyl ether	U	1.0									
2-Chlorotoluene	U	1.0									
2-Hexanone	U	2.5									
2-Propanol	U	1.0									
4-Chlorotoluene	U	1.0									
4-Isopropyltoluene	U	1.0									
4-Methyl-2-pentanone	U	2.5									
Acetone	U	5.0									
Acrolein	U	10									
Acrylonitrile	U	1.0									
Benzene	U	1.0									
Bromobenzene	U	1.0									
Bromochloromethane	U	1.0									
Bromodichloromethane	U	1.0									
Bromoform	U	1.0									
Bromomethane	U	1.0									C
Carbon disulfide	U	1.0									
Carbon tetrachloride	U	1.0									
Chlorobenzene	U	1.0									
Chlorodifluoromethane	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599A** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	U	1.0									C
Chloroform	U	1.0									
Chloromethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
cis-1,3-Dichloropropene	U	1.0									
Dibromochloromethane	U	1.0									
Dibromomethane	U	1.0									
Dichlorodifluoromethane	U	1.0									C
Diisopropyl ether	U	1.0									
Ethanol	U	5.0									
Ethyl acetate	U	1.0									
Ethylbenzene	U	1.0									
Freon-114	U	1.0									
Hexachlorobutadiene	U	1.0									
Isopropyl acetate	U	2.0									
Isopropylbenzene	U	1.0									
m,p-Xylene	U	2.0									
Methyl Acetate	U	2.0									
Methyl tert-butyl ether	U	1.0									
Methylene chloride	4.6	1.0									
n-Amyl acetate	U	1.0									
Naphthalene	U	1.0									
n-Butyl acetate	U	2.0									
n-Butylbenzene	U	1.0									
n-Propyl acetate	U	1.0									
n-Propylbenzene	U	1.0									
o-Xylene	U	1.0									
p-Diethylbenzene	U	1.0									
p-Ethyltoluene	U	1.0									
sec-Butylbenzene	U	1.0									
Styrene	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: **VBLK-051812YW** SampType: **MBLK** TestCode: **Full8260_W** Units: **µg/L** Prep Date: **5/18/2012** RunNo: **63599**
Client ID: **PBW** Batch ID: **R63599A** TestNo: **SW8260C** Analysis Date: **5/18/2012** SeqNo: **896312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
t-Butyl alcohol	U	2.0									
tert-Butylbenzene	U	1.0									
Tetrachloroethene	U	2.0									
Toluene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
trans-1,3-Dichloropropene	U	1.0									
Trichloroethene	U	1.0									
Trichlorofluoromethane	U	1.0									
Vinyl acetate	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		100	63	123				
Surr: Dibromofluoromethane	50		50.00		101	68	124				
Surr: Toluene-d8	48		50.00		96.6	67	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_D

Sample ID: MB052212D	SampType: MBLK	TestCode: HG_D	Units: mg/L	Prep Date:	RunNo: 63562
Client ID: PBW	Batch ID: 35901	TestNo: E245.1	SW3005A	Analysis Date: 5/22/2012	SeqNo: 895561

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.000200									

Sample ID: LCS052212D	SampType: LCS	TestCode: HG_D	Units: mg/L	Prep Date:	RunNo: 63562
Client ID: LCSW	Batch ID: 35901	TestNo: E245.1	SW3005A	Analysis Date: 5/22/2012	SeqNo: 895562

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00407	0.000200	0.004000	0	102	76	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_W

Sample ID: **MBW052212A**	SampType: **MBLK**	TestCode: **HG_W**	Units: **mg/L**	Prep Date:	RunNo: **63569**
Client ID: **PBW**	Batch ID: **R63569**	TestNo: **E245.1**		Analysis Date: **5/22/2012**	SeqNo: **895713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.000200									

Sample ID: **LCSW052212A**	SampType: **LCS**	TestCode: **HG_W**	Units: **mg/L**	Prep Date:	RunNo: **63569**
Client ID: **LCSW**	Batch ID: **R63569**	TestNo: **E245.1**		Analysis Date: **5/22/2012**	SeqNo: **895714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00433	0.000200	0.004000	0	108	76	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP_TAL_D

Sample ID: **PBW051812AD** SampType: **MBLK** TestCode: **ICP_TAL_D** Units: **mg/L** Prep Date: RunNo: **63570**
Client ID: **PBW** Batch ID: **35901** TestNo: **E200.7** **SW3005A** Analysis Date: **5/21/2012** SeqNo: **895745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	U	0.0200									
Antimony	U	0.0200									
Arsenic	U	0.0250									
Barium	U	0.0200									
Beryllium	U	0.0200									
Cadmium	U	0.0100									
Calcium	U	0.0250									
Chromium	U	0.0200									
Cobalt	U	0.0200									
Copper	U	0.0200									
Iron	U	0.0200									
Lead	U	0.0150									
Magnesium	U	0.0200									
Manganese	U	0.0200									
Nickel	U	0.0200									
Potassium	U	0.100									
Selenium	U	0.0250									
Silver	U	0.0200									
Sodium	U	0.0300									
Thallium	U	0.0150									
Vanadium	U	0.0200									
Zinc	U	0.0200									

Sample ID: **LCSW051812AD** SampType: **LCS** TestCode: **ICP_TAL_D** Units: **mg/L** Prep Date: **5/17/2012** RunNo: **63570**
Client ID: **LCSW** Batch ID: **35901** TestNo: **E200.7** **SW3005A** Analysis Date: **5/21/2012** SeqNo: **895746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.97	0.0200	2.000	0	98.5	85	115				
Antimony	2.03	0.0200	2.000	0	102	85	115				
Arsenic	2.01	0.0250	2.000	0	100	85	115				
Barium	2.05	0.0200	2.000	0	102	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP_TAL_D

Sample ID: LCSW051812AD	SampType: LCS	TestCode: ICP_TAL_D	Units: mg/L	Prep Date: 5/17/2012	RunNo: 63570
Client ID: LCSW	Batch ID: 35901	TestNo: E200.7	SW3005A	Analysis Date: 5/21/2012	SeqNo: 895746

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	2.03	0.0200	2.000	0	102	85	115				
Cadmium	2.06	0.0100	2.000	0	103	85	115				
Calcium	2.01	0.0250	2.000	0	101	85	115				
Chromium	2.08	0.0200	2.000	0	104	85	115				
Cobalt	2.06	0.0200	2.000	0	103	85	115				
Copper	2.04	0.0200	2.000	0	102	85	115				
Iron	2.05	0.0200	2.000	0	103	85	115				
Lead	2.06	0.0150	2.000	0	103	85	115				
Magnesium	1.94	0.0200	2.000	0	97.2	85	115				
Manganese	2.03	0.0200	2.000	0	101	85	115				
Nickel	2.04	0.0200	2.000	0	102	85	115				
Potassium	19.8	0.100	20.00	0	99.1	85	115				
Selenium	2.01	0.0250	2.000	0	101	85	115				
Silver	2.02	0.0200	2.000	0	101	85	115				
Sodium	2.09	0.0300	2.000	0	104	85	115				
Thallium	2.12	0.0150	2.000	0	106	85	115				
Vanadium	2.04	0.0200	2.000	0	102	85	115				
Zinc	2.04	0.0200	2.000	0	102	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP_TAL_W

Sample ID: **MBW052212A** SampType: **MBLK** TestCode: **ICP_TAL_W** Units: **mg/L** Prep Date: **5/22/2012** RunNo: **63605**
Client ID: **PBW** Batch ID: **35942** TestNo: **E200.7** **SW3010A** Analysis Date: **5/24/2012** SeqNo: **896585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	U	0.0200									
Antimony	U	0.0200									
Arsenic	U	0.0250									
Barium	U	0.0200									
Beryllium	U	0.0200									
Cadmium	U	0.0100									
Calcium	U	0.0250									
Chromium	U	0.0200									
Cobalt	U	0.0200									
Copper	U	0.0200									
Iron	U	0.0200									
Lead	U	0.0150									
Magnesium	U	0.0200									
Manganese	U	0.0200									
Nickel	U	0.0200									
Potassium	U	0.100									
Selenium	U	0.0250									
Silver	U	0.0200									
Sodium	U	0.0300									
Thallium	U	0.0150									
Vanadium	U	0.0200									
Zinc	U	0.0200									

Sample ID: **LCSW052212A** SampType: **LCS** TestCode: **ICP_TAL_W** Units: **mg/L** Prep Date: **5/22/2012** RunNo: **63605**
Client ID: **LCSW** Batch ID: **35942** TestNo: **E200.7** **SW3010A** Analysis Date: **5/24/2012** SeqNo: **896586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.01	0.0200	2.000	0	100	85	115				
Antimony	1.89	0.0200	2.000	0	94.6	85	115				
Arsenic	2.16	0.0250	2.000	0	108	85	115				
Barium	1.98	0.0200	2.000	0	99.0	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP_TAL_W

Sample ID: LCSW052212A	SampType: LCS	TestCode: ICP_TAL_W	Units: mg/L	Prep Date: 5/22/2012	RunNo: 63605
Client ID: LCSW	Batch ID: 35942	TestNo: E200.7	SW3010A	Analysis Date: 5/24/2012	SeqNo: 896586

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	1.93	0.0200	2.000	0	96.6	85	115				
Cadmium	2.00	0.0100	2.000	0	100	85	115				
Calcium	1.91	0.0250	2.000	0	95.7	85	115				
Chromium	2.04	0.0200	2.000	0	102	85	115				
Cobalt	1.99	0.0200	2.000	0	99.6	85	115				
Copper	1.96	0.0200	2.000	0	98.0	85	115				
Iron	1.96	0.0200	2.000	0	98.0	85	115				
Lead	2.02	0.0150	2.000	0	101	85	115				
Magnesium	1.88	0.0200	2.000	0	94.0	85	115				
Manganese	1.96	0.0200	2.000	0	98.2	85	115				
Nickel	2.05	0.0200	2.000	0	103	85	115				
Potassium	18.1	0.100	20.00	0	90.4	85	115				
Selenium	2.04	0.0250	2.000	0	102	85	115				
Silver	1.93	0.0200	2.000	0	96.6	85	115				
Sodium	2.01	0.0300	2.000	0	101	85	115				
Thallium	1.97	0.0150	2.000	0	98.7	85	115				
Vanadium	1.97	0.0200	2.000	0	98.4	85	115				
Zinc	2.00	0.0200	2.000	0	100	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1205159
Project: 224-01 Merrick Blvd., Queens, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_D

Sample ID: **1205159-03F-MS**	SampType: **MS**	TestCode: **HG_D**	Units: **mg/L**	Prep Date:	RunNo: **63562**
Client ID: **MW-3**	Batch ID: **35901**	TestNo: **E245.1**	**SW3005A**	Analysis Date: **5/22/2012**	SeqNo: **895566**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00505	0.000200	0.004000	0.001080	99.3	64.75	124				

Sample ID: **1205159-03F-MSD**	SampType: **MSD**	TestCode: **HG_D**	Units: **mg/L**	Prep Date:	RunNo: **63562**
Client ID: **MW-3**	Batch ID: **35901**	TestNo: **E245.1**	**SW3005A**	Analysis Date: **5/22/2012**	SeqNo: **895568**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00511	0.000200	0.004000	0.001080	101	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	P	>40% diff for detected conc between the two GC column	PQL	Practical Quantitation Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : KOPTD 12-02-224MERRICK BLVD. QNS NY

J.R.HOLZMACHER P.E., LLC

300 Wheeler Avenue

Suite 402

Hauppauge, NY - 11788

Phone No: 6312342220

ORDER ID : D2545

ATTENTION : Heather Sonnenberg

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH

Table of Contents D2545

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : D2545

Project ID : KoptD 12-02-224Merrick Blvd. Qns NY

Client : J.R.Holzmacher P.E., LLC

Lab Sample Number	Client Sample Number
D2545-01	VP-1
D2545-02	VP-2
D2545-03	VP-3

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

CHEMTECH

CASE NARRATIVE

J.R.Holzmacher P.E., LLC
Project Name: KoptD 12-02-224Merrick Blvd. Qns NY
Project # N/A
Chemtech Project # D2545
Test Name: TO-15

A. Number of Samples and Date of Receipt:
3 Air samples were received on 05/04/2012.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SUMMA Canister Rental and TO-15. This data package contains results for TO-15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator.The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank Spike met requirements for all samples .
The Initial Calibration met the requirements .
The Tuning criteria met requirements.
Samples VP-1, VP-2 and VP-3 were diluted due to high concentrations.

E. Additional Comments:

F. Manual Integration Comments:

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: D2545

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: PRIYANKA PATEL **Date:** 05/24/2012

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

QA/QC DELIVERABLES CHECKLIST

Project Number : D2545

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

		Yes	No
I.	Report Cover Page, Laboratory Certification and Field Sample To Lab Sample ID Cross Reference	✓	
II.	Table of Content Table of Content s	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hoeld Checks Time Checks	✓	
VI.	Case Narrative	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)	✓	
X.	Quality Control Summary Report	✓	
XI.	Surrogate Recovery Summary	✓	
XII.	Raw Data Chromatogram, Blank Samples and QC when applicable	✓	
XIII.	Subcontract Data		✓

QA/QC Data Reviewer **Date: 05/24/2012**

NJDEP Certification No. 20012 **NYSDOH Certification No. 11376**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	D2545	**OrderDate:**	5/4/2012 11:14:16 AM
Client:	J.R.Holzmacher P.E., LLC	**Project:**	KoptD 12-02-224Merrick Blvd. Qns NY
Contact:	Heather Sonnenberg	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D2545-01	**VP-1**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	
D2545-01DL	**VP-1DL**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	
D2545-02	**VP-2**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	
D2545-02DL	**VP-2DL**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	
D2545-03	**VP-3**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	
D2545-03DL	**VP-3DL**	**AIR**			**05/03/12**			**05/04/12**
			TO-15	TO-15			05/06/12	

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D2545

Client: J.R.Holzmacher P.E., LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**VP-1**								
D2545-01	VP-1	AIR	Dichlorodifluoromethane	0.31	J	0.040	0.25	0.50	ppbv
D2545-01	VP-1	AIR	tert-Butyl alcohol	6.40		0.100	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Chloromethane	0.19	J	0.060	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Trichlorofluoromethane	0.19	J	0.040	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Heptane	2.20		0.060	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Acetone	49.00	E	0.100	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Carbon Disulfide	0.22	J	0.050	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Methylene Chloride	2.00		0.050	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Cyclohexane	0.28	J	0.080	0.25	0.50	ppbv
D2545-01	VP-1	AIR	2-Butanone	4.00		0.100	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Carbon Tetrachloride	0.05	J	0.030	0.03	0.06	ppbv
D2545-01	VP-1	AIR	Chloroform	0.24	J	0.020	0.25	0.50	ppbv
D2545-01	VP-1	AIR	1,1,1-Trichloroethane	0.04	J	0.030	0.03	0.06	ppbv
D2545-01	VP-1	AIR	Tetrahydrofuran	0.70		0.080	0.25	0.50	ppbv
D2545-01	VP-1	AIR	2,2,4-Trimethylpentane	1.30		0.040	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Benzene	0.88		0.040	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Trichloroethene	0.09		0.030	0.03	0.06	ppbv
D2545-01	VP-1	AIR	4-Methyl-2-Pentanone	0.55		0.060	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Toluene	12.00		0.050	0.25	0.50	ppbv
D2545-01	VP-1	AIR	Tetrachloroethene	60.00	E	0.030	0.03	0.06	ppbv
D2545-01	VP-1	AIR	Ethyl Benzene	2.40		0.080	0.25	0.50	ppbv
D2545-01	VP-1	AIR	m/p-Xylene	7.90		0.110	0.5	1.0	ppbv
D2545-01	VP-1	AIR	o-Xylene	2.50		0.070	0.25	0.50	ppbv
D2545-01	VP-1	AIR	1,3,5-Trimethylbenzene	0.66		0.090	0.25	0.50	ppbv
D2545-01	VP-1	AIR	1,2,4-Trimethylbenzene	2.10		0.100	0.25	0.50	ppbv
D2545-01	VP-1	AIR	4-Ethyltoluene	1.30		0.080	0.25	0.50	ppbv
			Total Voc :		**157.50**				
			Total Concentration:		**157.50**				
Client ID:	**VP-1DL**								
D2545-01DL	VP-1DL	AIR	tert-Butyl alcohol	6.30	D	1.0	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	Heptane	1.20	JD	0.600	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	Acetone	66.00	D	1.0	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	Methylene Chloride	3.20	JD	0.500	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	2-Butanone	2.60	JD	1.0	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	Toluene	7.10	D	0.500	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	Tetrachloroethene	37.00	D	0.300	0.3	0.60	ppbv
D2545-01DL	VP-1DL	AIR	Ethyl Benzene	1.60	JD	0.800	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	m/p-Xylene	5.30	JD	1.1	5	10	ppbv

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D2545

Client: J.R.Holzmacher P.E., LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
D2545-01DL	VP-1DL	AIR	o-Xylene	1.90	JD	0.700	2.5	5.0	ppbv
D2545-01DL	VP-1DL	AIR	1,2,4-Trimethylbenzene	1.50	JD	1.0	2.5	5.0	ppbv
			Total Voc :		**133.70**				
			Total Concentration:		**133.70**				
Client ID:	**VP-2**								
D2545-02	VP-2	AIR	Dichlorodifluoromethane	0.35	J	0.040	0.25	0.50	ppbv
D2545-02	VP-2	AIR	tert-Butyl alcohol	4.10		0.100	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Chloromethane	0.10	J	0.060	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Trichlorofluoromethane	0.21	J	0.040	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Heptane	1.60		0.060	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Acetone	31.00	E	0.100	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Carbon Disulfide	0.55		0.050	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Methylene Chloride	1.50		0.050	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Cyclohexane	0.33	J	0.080	0.25	0.50	ppbv
D2545-02	VP-2	AIR	2-Butanone	2.10		0.100	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Carbon Tetrachloride	0.03	J	0.030	0.03	0.06	ppbv
D2545-02	VP-2	AIR	Chloroform	0.89		0.020	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Tetrahydrofuran	0.45	J	0.080	0.25	0.50	ppbv
D2545-02	VP-2	AIR	2,2,4-Trimethylpentane	0.92		0.040	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Benzene	0.79		0.040	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Trichloroethene	0.06	J	0.030	0.03	0.06	ppbv
D2545-02	VP-2	AIR	4-Methyl-2-Pentanone	0.37	J	0.060	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Toluene	8.80		0.050	0.25	0.50	ppbv
D2545-02	VP-2	AIR	Tetrachloroethene	34.00	E	0.030	0.03	0.06	ppbv
D2545-02	VP-2	AIR	Ethyl Benzene	2.30		0.080	0.25	0.50	ppbv
D2545-02	VP-2	AIR	m/p-Xylene	7.70		0.110	0.5	1.0	ppbv
D2545-02	VP-2	AIR	o-Xylene	2.50		0.070	0.25	0.50	ppbv
D2545-02	VP-2	AIR	1,3,5-Trimethylbenzene	0.72		0.090	0.25	0.50	ppbv
D2545-02	VP-2	AIR	1,2,4-Trimethylbenzene	2.50		0.100	0.25	0.50	ppbv
D2545-02	VP-2	AIR	4-Ethyltoluene	1.30		0.080	0.25	0.50	ppbv
			Total Voc :		**105.17**				
			Total Concentration:		**105.17**				
Client ID:	**VP-2DL**								
D2545-02DL	VP-2DL	AIR	tert-Butyl alcohol	3.90	JD	1.0	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	Acetone	37.00	D	1.0	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	Methylene Chloride	2.70	JD	0.500	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	2-Butanone	1.60	JD	1.0	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	Toluene	5.80	D	0.500	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	Tetrachloroethene	26.00	D	0.300	0.3	0.60	ppbv

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D2545

Client: J.R.Holzmacher P.E., LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
D2545-02DL	VP-2DL	AIR	Ethyl Benzene	1.60	JD	0.800	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	m/p-Xylene	5.40	JD	1.1	5	10	ppbv
D2545-02DL	VP-2DL	AIR	o-Xylene	1.90	JD	0.700	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	1,2,4-Trimethylbenzene	1.80	JD	1.0	2.5	5.0	ppbv
D2545-02DL	VP-2DL	AIR	4-Ethyltoluene	1.00	JD	0.800	2.5	5.0	ppbv
			Total Voc :		**88.70**				
			Total Concentration:		**88.70**				
Client ID:	**VP-3**								
D2545-03	VP-3	AIR	Dichlorodifluoromethane	0.41	J	0.040	0.25	0.50	ppbv
D2545-03	VP-3	AIR	tert-Butyl alcohol	5.60		0.100	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Trichlorofluoromethane	0.24	J	0.040	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Heptane	1.80		0.060	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Acetone	41.00	E	0.100	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Carbon Disulfide	0.23	J	0.050	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Methylene Chloride	1.50		0.050	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Cyclohexane	0.40	J	0.080	0.25	0.50	ppbv
D2545-03	VP-3	AIR	2-Butanone	2.30		0.100	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Carbon Tetrachloride	0.04	J	0.030	0.03	0.06	ppbv
D2545-03	VP-3	AIR	Chloroform	2.10		0.020	0.25	0.50	ppbv
D2545-03	VP-3	AIR	1,1,1-Trichloroethane	0.04	J	0.030	0.03	0.06	ppbv
D2545-03	VP-3	AIR	Tetrahydrofuran	0.50	J	0.080	0.25	0.50	ppbv
D2545-03	VP-3	AIR	2,2,4-Trimethylpentane	1.20		0.040	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Benzene	0.92		0.040	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Trichloroethene	0.18		0.030	0.03	0.06	ppbv
D2545-03	VP-3	AIR	4-Methyl-2-Pentanone	0.51		0.060	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Toluene	9.40		0.050	0.25	0.50	ppbv
D2545-03	VP-3	AIR	Tetrachloroethene	45.00	E	0.030	0.03	0.06	ppbv
D2545-03	VP-3	AIR	Ethyl Benzene	2.30		0.080	0.25	0.50	ppbv
D2545-03	VP-3	AIR	m/p-Xylene	7.40		0.110	0.5	1.0	ppbv
D2545-03	VP-3	AIR	o-Xylene	2.30		0.070	0.25	0.50	ppbv
D2545-03	VP-3	AIR	1,3,5-Trimethylbenzene	0.62		0.090	0.25	0.50	ppbv
D2545-03	VP-3	AIR	1,2,4-Trimethylbenzene	2.00		0.100	0.25	0.50	ppbv
D2545-03	VP-3	AIR	4-Ethyltoluene	1.10		0.080	0.25	0.50	ppbv
			Total Voc :		**129.09**				
			Total Concentration:		**129.09**				
Client ID:	**VP-3DL**								
D2545-03DL	VP-3DL	AIR	tert-Butyl alcohol	5.70	D	1.0	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	Heptane	1.00	JD	0.600	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	Acetone	56.00	D	1.0	2.5	5.0	ppbv

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D2545

Client: J.R.Holzmacher P.E., LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
D2545-03DL	VP-3DL	AIR	Methylene Chloride	2.90	JD	0.500	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	2-Butanone	1.80	JD	1.0	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	Chloroform	2.10	JD	0.200	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	Toluene	6.60	D	0.500	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	Tetrachloroethene	38.00	D	0.300	0.3	0.60	ppbv
D2545-03DL	VP-3DL	AIR	Ethyl Benzene	1.60	JD	0.800	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	m/p-Xylene	5.40	JD	1.1	5	10	ppbv
D2545-03DL	VP-3DL	AIR	o-Xylene	1.90	JD	0.700	2.5	5.0	ppbv
D2545-03DL	VP-3DL	AIR	1,2,4-Trimethylbenzene	1.60	JD	1.0	2.5	5.0	ppbv
			Total Voc :		**124.60**				
			Total Concentration:		**124.60**				

CHEMTECH

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1	SDG No.:	D2545
Lab Sample ID:	D2545-01	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017028.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.31	1.53	J	0.04	0.25	0.5	ppbv
75-65-0	tert-Butyl alcohol	6.4	19.4		0.1	0.25	0.5	ppbv
74-87-3	Chloromethane	0.19	0.39	J	0.06	0.25	0.5	ppbv
80-62-6	Methyl Methacrylate	0.25	1.02	U	0.1	0.25	0.5	ppbv
75-01-4	Vinyl Chloride	0.25	0.64	U	0.07	0.25	0.5	ppbv
74-83-9	Bromomethane	0.25	0.97	U	0.03	0.25	0.5	ppbv
75-00-3	Chloroethane	0.25	0.66	U	0.07	0.25	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.19	1.07	J	0.04	0.25	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.25	1.75	U	0.04	0.25	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.92	U	0.04	0.25	0.5	ppbv
593-60-2	Bromoethene	0.25	1.09	U	0.03	0.25	0.5	ppbv
142-82-5	Heptane	2.2	9.02		0.06	0.25	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.25	0.99	U	0.05	0.25	0.5	ppbv
67-64-1	Acetone	49	116	E	0.1	0.25	0.5	ppbv
75-15-0	Carbon Disulfide	0.22	0.69	J	0.05	0.25	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.25	0.9	U	0.05	0.25	0.5	ppbv
75-09-2	Methylene Chloride	2	6.95		0.05	0.25	0.5	ppbv
107-05-1	Allyl Chloride	0.25	0.78	U	0.05	0.25	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.25	1.01	U	0.04	0.25	0.5	ppbv
110-82-7	Cyclohexane	0.28	0.96	J	0.08	0.25	0.5	ppbv
78-93-3	2-Butanone	4	11.8		0.1	0.25	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.05	0.31	J	0.03	0.03	0.06	ppbv
156-59-2	cis-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
67-66-3	Chloroform	0.24	1.17	J	0.02	0.25	0.5	ppbv
123-91-1	1,4-Dioxane	0.25	0.9	U	0.09	0.25	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.22	J	0.03	0.03	0.06	ppbv
109-99-9	Tetrahydrofuran	0.7	2.06		0.08	0.25	0.5	ppbv
540-84-1	2,2,4-Trimethylpentane	1.3	6.07		0.04	0.25	0.5	ppbv
71-43-2	Benzene	0.88	2.81		0.04	0.25	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.25	1.01	U	0.07	0.25	0.5	ppbv
79-01-6	Trichloroethene	0.09	0.48		0.03	0.03	0.06	ppbv
78-87-5	1,2-Dichloropropane	0.25	1.16	U	0.06	0.25	0.5	ppbv
75-27-4	Bromodichloromethane	0.25	1.67	U	0.05	0.25	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.55	2.25		0.06	0.25	0.5	ppbv
108-88-3	Toluene	12	45.2		0.05	0.25	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.25	1.13	U	0.07	0.25	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.25	1.13	U	0.06	0.25	0.5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1	SDG No.:	D2545
Lab Sample ID:	D2545-01	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017028.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.25	1.36	U	0.08	0.25	0.5	ppbv
124-48-1	Dibromochloromethane	0.25	2.13	U	0.05	0.25	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.25	1.92	U	0.07	0.25	0.5	ppbv
127-18-4	Tetrachloroethene	60	406	E	0.03	0.03	0.06	ppbv
108-90-7	Chlorobenzene	0.25	1.15	U	0.09	0.25	0.5	ppbv
100-41-4	Ethyl Benzene	2.4	10.4		0.08	0.25	0.5	ppbv
179601-23-1	m/p-Xylene	7.9	34.3		0.11	0.5	1	ppbv
95-47-6	o-Xylene	2.5	10.9		0.07	0.25	0.5	ppbv
100-42-5	Styrene	0.25	1.06	U	0.07	0.25	0.5	ppbv
75-25-2	Bromoform	0.25	2.58	U	0.05	0.25	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.25	1.72	U	0.1	0.25	0.5	ppbv
95-49-8	2-Chlorotoluene	0.25	1.29	U	0.1	0.25	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.66	3.24		0.09	0.25	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	2.1	10.3		0.1	0.25	0.5	ppbv
622-96-8	4-Ethyltoluene	1.3	6.39		0.08	0.25	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.25	1.5	U	0.08	0.25	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.25	1.5	U	0.06	0.25	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.25	1.5	U	0.07	0.25	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.25	1.86	U	0.04	0.25	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.25	2.67	U	0.08	0.25	0.5	ppbv
106-99-0	1,3-Butadiene	0.25	0.55	U	0.09	0.25	0.5	ppbv
110-54-3	Hexane	0.25	0.88	U	0.04	0.25	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.94			65 - 135		99%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2187390		6.37				
540-36-3	1,4-Difluorobenzene	5365820		7.93				
3114-55-4	Chlorobenzene-d5	6046860		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1	SDG No.:	D2545
Lab Sample ID:	D2545-01	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017028.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1DL	SDG No.:	D2545
Lab Sample ID:	D2545-01DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017031.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	2.5	12.4	U	0.4	2.5	5	ppbv
75-65-0	tert-Butyl alcohol	6.3	19.1	D	1	2.5	5	ppbv
74-87-3	Chloromethane	2.5	5.16	U	0.6	2.5	5	ppbv
80-62-6	Methyl Methacrylate	2.5	10.2	U	1	2.5	5	ppbv
75-01-4	Vinyl Chloride	2.5	6.39	U	0.7	2.5	5	ppbv
74-83-9	Bromomethane	2.5	9.71	U	0.3	2.5	5	ppbv
75-00-3	Chloroethane	2.5	6.6	U	0.7	2.5	5	ppbv
75-69-4	Trichlorofluoromethane	2.5	14.0	U	0.4	2.5	5	ppbv
76-14-2	Dichlorotetrafluoroethane	2.5	17.5	U	0.4	2.5	5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	19.2	U	0.4	2.5	5	ppbv
593-60-2	Bromoethene	2.5	10.9	U	0.3	2.5	5	ppbv
142-82-5	Heptane	1.2	4.92	JD	0.6	2.5	5	ppbv
75-35-4	1,1-Dichloroethene	2.5	9.91	U	0.5	2.5	5	ppbv
67-64-1	Acetone	66	156	D	1	2.5	5	ppbv
75-15-0	Carbon Disulfide	2.5	7.79	U	0.5	2.5	5	ppbv
1634-04-4	Methyl tert-Butyl Ether	2.5	9.01	U	0.5	2.5	5	ppbv
75-09-2	Methylene Chloride	3.2	11.1	JD	0.5	2.5	5	ppbv
107-05-1	Allyl Chloride	2.5	7.83	U	0.5	2.5	5	ppbv
156-60-5	trans-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
75-34-3	1,1-Dichloroethane	2.5	10.1	U	0.4	2.5	5	ppbv
110-82-7	Cyclohexane	2.5	8.61	U	0.8	2.5	5	ppbv
78-93-3	2-Butanone	2.6	7.67	JD	1	2.5	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.3	0.3	0.6	ppbv
156-59-2	cis-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
67-66-3	Chloroform	2.5	12.2	U	0.2	2.5	5	ppbv
123-91-1	1,4-Dioxane	2.5	9.01	U	0.9	2.5	5	ppbv
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.3	0.3	0.6	ppbv
109-99-9	Tetrahydrofuran	2.5	7.37	U	0.8	2.5	5	ppbv
540-84-1	2,2,4-Trimethylpentane	2.5	11.7	U	0.4	2.5	5	ppbv
71-43-2	Benzene	2.5	7.99	U	0.4	2.5	5	ppbv
107-06-2	1,2-Dichloroethane	2.5	10.1	U	0.7	2.5	5	ppbv
79-01-6	Trichloroethene	0.3	1.61	U	0.3	0.3	0.6	ppbv
78-87-5	1,2-Dichloropropane	2.5	11.6	U	0.6	2.5	5	ppbv
75-27-4	Bromodichloromethane	2.5	16.8	U	0.5	2.5	5	ppbv
108-10-1	4-Methyl-2-Pentanone	2.5	10.2	U	0.6	2.5	5	ppbv
108-88-3	Toluene	7.1	26.8	D	0.5	2.5	5	ppbv
10061-02-6	t-1,3-Dichloropropene	2.5	11.4	U	0.7	2.5	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	2.5	11.4	U	0.6	2.5	5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1DL	SDG No.:	D2545
Lab Sample ID:	D2545-01DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017031.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	2.5	13.6	U	0.8	2.5	5	ppbv
124-48-1	Dibromochloromethane	2.5	21.3	U	0.5	2.5	5	ppbv
106-93-4	1,2-Dibromoethane	2.5	19.2	U	0.7	2.5	5	ppbv
127-18-4	Tetrachloroethene	37	250	D	0.3	0.3	0.6	ppbv
108-90-7	Chlorobenzene	2.5	11.5	U	0.9	2.5	5	ppbv
100-41-4	Ethyl Benzene	1.6	6.95	JD	0.8	2.5	5	ppbv
179601-23-1	m/p-Xylene	5.3	23.0	JD	1.1	5	10	ppbv
95-47-6	o-Xylene	1.9	8.25	JD	0.7	2.5	5	ppbv
100-42-5	Styrene	2.5	10.6	U	0.7	2.5	5	ppbv
75-25-2	Bromoform	2.5	25.8	U	0.5	2.5	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	2.5	17.2	U	1	2.5	5	ppbv
95-49-8	2-Chlorotoluene	2.5	12.9	U	1	2.5	5	ppbv
108-67-8	1,3,5-Trimethylbenzene	2.5	12.3	U	0.9	2.5	5	ppbv
95-63-6	1,2,4-Trimethylbenzene	1.5	7.37	JD	1	2.5	5	ppbv
622-96-8	4-Ethyltoluene	2.5	12.3	U	0.8	2.5	5	ppbv
541-73-1	1,3-Dichlorobenzene	2.5	15.0	U	0.8	2.5	5	ppbv
106-46-7	1,4-Dichlorobenzene	2.5	15.0	U	0.6	2.5	5	ppbv
95-50-1	1,2-Dichlorobenzene	2.5	15.0	U	0.7	2.5	5	ppbv
120-82-1	1,2,4-Trichlorobenzene	2.5	18.6	U	0.4	2.5	5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	2.5	26.7	U	0.8	2.5	5	ppbv
106-99-0	1,3-Butadiene	2.5	5.53	U	0.9	2.5	5	ppbv
110-54-3	Hexane	2.5	8.81	U	0.4	2.5	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2394120		6.37				
540-36-3	1,4-Difluorobenzene	8004300		7.93				
3114-55-4	Chlorobenzene-d5	7635890		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-1DL	SDG No.:	D2545
Lab Sample ID:	D2545-01DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017031.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2	SDG No.:	D2545
Lab Sample ID:	D2545-02	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017029.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.35	1.73	J	0.04	0.25	0.5	ppbv
75-65-0	tert-Butyl alcohol	4.1	12.4		0.1	0.25	0.5	ppbv
74-87-3	Chloromethane	0.1	0.21	J	0.06	0.25	0.5	ppbv
80-62-6	Methyl Methacrylate	0.25	1.02	U	0.1	0.25	0.5	ppbv
75-01-4	Vinyl Chloride	0.25	0.64	U	0.07	0.25	0.5	ppbv
74-83-9	Bromomethane	0.25	0.97	U	0.03	0.25	0.5	ppbv
75-00-3	Chloroethane	0.25	0.66	U	0.07	0.25	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.04	0.25	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.25	1.75	U	0.04	0.25	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.92	U	0.04	0.25	0.5	ppbv
593-60-2	Bromoethene	0.25	1.09	U	0.03	0.25	0.5	ppbv
142-82-5	Heptane	1.6	6.56		0.06	0.25	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.25	0.99	U	0.05	0.25	0.5	ppbv
67-64-1	Acetone	31	73.6	E	0.1	0.25	0.5	ppbv
75-15-0	Carbon Disulfide	0.55	1.71		0.05	0.25	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.25	0.9	U	0.05	0.25	0.5	ppbv
75-09-2	Methylene Chloride	1.5	5.21		0.05	0.25	0.5	ppbv
107-05-1	Allyl Chloride	0.25	0.78	U	0.05	0.25	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.25	1.01	U	0.04	0.25	0.5	ppbv
110-82-7	Cyclohexane	0.33	1.14	J	0.08	0.25	0.5	ppbv
78-93-3	2-Butanone	2.1	6.19		0.1	0.25	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	J	0.03	0.03	0.06	ppbv
156-59-2	cis-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
67-66-3	Chloroform	0.89	4.35		0.02	0.25	0.5	ppbv
123-91-1	1,4-Dioxane	0.25	0.9	U	0.09	0.25	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.06	ppbv
109-99-9	Tetrahydrofuran	0.45	1.33	J	0.08	0.25	0.5	ppbv
540-84-1	2,2,4-Trimethylpentane	0.92	4.3		0.04	0.25	0.5	ppbv
71-43-2	Benzene	0.79	2.52		0.04	0.25	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.25	1.01	U	0.07	0.25	0.5	ppbv
79-01-6	Trichloroethene	0.06	0.32	J	0.03	0.03	0.06	ppbv
78-87-5	1,2-Dichloropropane	0.25	1.16	U	0.06	0.25	0.5	ppbv
75-27-4	Bromodichloromethane	0.25	1.67	U	0.05	0.25	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	J	0.06	0.25	0.5	ppbv
108-88-3	Toluene	8.8	33.2		0.05	0.25	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.25	1.13	U	0.07	0.25	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.25	1.13	U	0.06	0.25	0.5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2	SDG No.:	D2545
Lab Sample ID:	D2545-02	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017029.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.25	1.36	U	0.08	0.25	0.5	ppbv
124-48-1	Dibromochloromethane	0.25	2.13	U	0.05	0.25	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.25	1.92	U	0.07	0.25	0.5	ppbv
127-18-4	Tetrachloroethene	34	230	E	0.03	0.03	0.06	ppbv
108-90-7	Chlorobenzene	0.25	1.15	U	0.09	0.25	0.5	ppbv
100-41-4	Ethyl Benzene	2.3	9.99		0.08	0.25	0.5	ppbv
179601-23-1	m/p-Xylene	7.7	33.4		0.11	0.5	1	ppbv
95-47-6	o-Xylene	2.5	10.9		0.07	0.25	0.5	ppbv
100-42-5	Styrene	0.25	1.06	U	0.07	0.25	0.5	ppbv
75-25-2	Bromoform	0.25	2.58	U	0.05	0.25	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.25	1.72	U	0.1	0.25	0.5	ppbv
95-49-8	2-Chlorotoluene	0.25	1.29	U	0.1	0.25	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54		0.09	0.25	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	2.5	12.3		0.1	0.25	0.5	ppbv
622-96-8	4-Ethyltoluene	1.3	6.39		0.08	0.25	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.25	1.5	U	0.08	0.25	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.25	1.5	U	0.06	0.25	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.25	1.5	U	0.07	0.25	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.25	1.86	U	0.04	0.25	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.25	2.67	U	0.08	0.25	0.5	ppbv
106-99-0	1,3-Butadiene	0.25	0.55	U	0.09	0.25	0.5	ppbv
110-54-3	Hexane	0.25	0.88	U	0.04	0.25	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.59			65 - 135		96%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2312370		6.37				
540-36-3	1,4-Difluorobenzene	7261880		7.93				
3114-55-4	Chlorobenzene-d5	6913160		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2	SDG No.:	D2545
Lab Sample ID:	D2545-02	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017029.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2DL	SDG No.:	D2545
Lab Sample ID:	D2545-02DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017030.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	2.5	12.4	U	0.4	2.5	5	ppbv
75-65-0	tert-Butyl alcohol	3.9	11.8	JD	1	2.5	5	ppbv
74-87-3	Chloromethane	2.5	5.16	U	0.6	2.5	5	ppbv
80-62-6	Methyl Methacrylate	2.5	10.2	U	1	2.5	5	ppbv
75-01-4	Vinyl Chloride	2.5	6.39	U	0.7	2.5	5	ppbv
74-83-9	Bromomethane	2.5	9.71	U	0.3	2.5	5	ppbv
75-00-3	Chloroethane	2.5	6.6	U	0.7	2.5	5	ppbv
75-69-4	Trichlorofluoromethane	2.5	14.0	U	0.4	2.5	5	ppbv
76-14-2	Dichlorotetrafluoroethane	2.5	17.5	U	0.4	2.5	5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	19.2	U	0.4	2.5	5	ppbv
593-60-2	Bromoethene	2.5	10.9	U	0.3	2.5	5	ppbv
142-82-5	Heptane	2.5	10.2	U	0.6	2.5	5	ppbv
75-35-4	1,1-Dichloroethene	2.5	9.91	U	0.5	2.5	5	ppbv
67-64-1	Acetone	37	87.9	D	1	2.5	5	ppbv
75-15-0	Carbon Disulfide	2.5	7.79	U	0.5	2.5	5	ppbv
1634-04-4	Methyl tert-Butyl Ether	2.5	9.01	U	0.5	2.5	5	ppbv
75-09-2	Methylene Chloride	2.7	9.38	JD	0.5	2.5	5	ppbv
107-05-1	Allyl Chloride	2.5	7.83	U	0.5	2.5	5	ppbv
156-60-5	trans-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
75-34-3	1,1-Dichloroethane	2.5	10.1	U	0.4	2.5	5	ppbv
110-82-7	Cyclohexane	2.5	8.61	U	0.8	2.5	5	ppbv
78-93-3	2-Butanone	1.6	4.72	JD	1	2.5	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.3	0.3	0.6	ppbv
156-59-2	cis-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
67-66-3	Chloroform	2.5	12.2	U	0.2	2.5	5	ppbv
123-91-1	1,4-Dioxane	2.5	9.01	U	0.9	2.5	5	ppbv
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.3	0.3	0.6	ppbv
109-99-9	Tetrahydrofuran	2.5	7.37	U	0.8	2.5	5	ppbv
540-84-1	2,2,4-Trimethylpentane	2.5	11.7	U	0.4	2.5	5	ppbv
71-43-2	Benzene	2.5	7.99	U	0.4	2.5	5	ppbv
107-06-2	1,2-Dichloroethane	2.5	10.1	U	0.7	2.5	5	ppbv
79-01-6	Trichloroethene	0.3	1.61	U	0.3	0.3	0.6	ppbv
78-87-5	1,2-Dichloropropane	2.5	11.6	U	0.6	2.5	5	ppbv
75-27-4	Bromodichloromethane	2.5	16.8	U	0.5	2.5	5	ppbv
108-10-1	4-Methyl-2-Pentanone	2.5	10.2	U	0.6	2.5	5	ppbv
108-88-3	Toluene	5.8	21.9	D	0.5	2.5	5	ppbv
10061-02-6	t-1,3-Dichloropropene	2.5	11.4	U	0.7	2.5	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	2.5	11.4	U	0.6	2.5	5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2DL	SDG No.:	D2545
Lab Sample ID:	D2545-02DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017030.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	2.5	13.6	U	0.8	2.5	5	ppbv
124-48-1	Dibromochloromethane	2.5	21.3	U	0.5	2.5	5	ppbv
106-93-4	1,2-Dibromoethane	2.5	19.2	U	0.7	2.5	5	ppbv
127-18-4	Tetrachloroethene	26	176	D	0.3	0.3	0.6	ppbv
108-90-7	Chlorobenzene	2.5	11.5	U	0.9	2.5	5	ppbv
100-41-4	Ethyl Benzene	1.6	6.95	JD	0.8	2.5	5	ppbv
179601-23-1	m/p-Xylene	5.4	23.5	JD	1.1	5	10	ppbv
95-47-6	o-Xylene	1.9	8.25	JD	0.7	2.5	5	ppbv
100-42-5	Styrene	2.5	10.6	U	0.7	2.5	5	ppbv
75-25-2	Bromoform	2.5	25.8	U	0.5	2.5	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	2.5	17.2	U	1	2.5	5	ppbv
95-49-8	2-Chlorotoluene	2.5	12.9	U	1	2.5	5	ppbv
108-67-8	1,3,5-Trimethylbenzene	2.5	12.3	U	0.9	2.5	5	ppbv
95-63-6	1,2,4-Trimethylbenzene	1.8	8.85	JD	1	2.5	5	ppbv
622-96-8	4-Ethyltoluene	1	4.92	JD	0.8	2.5	5	ppbv
541-73-1	1,3-Dichlorobenzene	2.5	15.0	U	0.8	2.5	5	ppbv
106-46-7	1,4-Dichlorobenzene	2.5	15.0	U	0.6	2.5	5	ppbv
95-50-1	1,2-Dichlorobenzene	2.5	15.0	U	0.7	2.5	5	ppbv
120-82-1	1,2,4-Trichlorobenzene	2.5	18.6	U	0.4	2.5	5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	2.5	26.7	U	0.8	2.5	5	ppbv
106-99-0	1,3-Butadiene	2.5	5.53	U	0.9	2.5	5	ppbv
110-54-3	Hexane	2.5	8.81	U	0.4	2.5	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2423430		6.37				
540-36-3	1,4-Difluorobenzene	8331710		7.93				
3114-55-4	Chlorobenzene-d5	7811160		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-2DL	SDG No.:	D2545
Lab Sample ID:	D2545-02DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017030.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3	SDG No.:	D2545
Lab Sample ID:	D2545-03	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017032.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.41	2.03	J	0.04	0.25	0.5	ppbv
75-65-0	tert-Butyl alcohol	5.6	17.0		0.1	0.25	0.5	ppbv
74-87-3	Chloromethane	0.25	0.52	U	0.06	0.25	0.5	ppbv
80-62-6	Methyl Methacrylate	0.25	1.02	U	0.1	0.25	0.5	ppbv
75-01-4	Vinyl Chloride	0.25	0.64	U	0.07	0.25	0.5	ppbv
74-83-9	Bromomethane	0.25	0.97	U	0.03	0.25	0.5	ppbv
75-00-3	Chloroethane	0.25	0.66	U	0.07	0.25	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.04	0.25	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.25	1.75	U	0.04	0.25	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.92	U	0.04	0.25	0.5	ppbv
593-60-2	Bromoethene	0.25	1.09	U	0.03	0.25	0.5	ppbv
142-82-5	Heptane	1.8	7.38		0.06	0.25	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.25	0.99	U	0.05	0.25	0.5	ppbv
67-64-1	Acetone	41	97.4	E	0.1	0.25	0.5	ppbv
75-15-0	Carbon Disulfide	0.23	0.72	J	0.05	0.25	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.25	0.9	U	0.05	0.25	0.5	ppbv
75-09-2	Methylene Chloride	1.5	5.21		0.05	0.25	0.5	ppbv
107-05-1	Allyl Chloride	0.25	0.78	U	0.05	0.25	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.25	1.01	U	0.04	0.25	0.5	ppbv
110-82-7	Cyclohexane	0.4	1.38	J	0.08	0.25	0.5	ppbv
78-93-3	2-Butanone	2.3	6.78		0.1	0.25	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.04	0.25	J	0.03	0.03	0.06	ppbv
156-59-2	cis-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
67-66-3	Chloroform	2.1	10.3		0.02	0.25	0.5	ppbv
123-91-1	1,4-Dioxane	0.25	0.9	U	0.09	0.25	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.22	J	0.03	0.03	0.06	ppbv
109-99-9	Tetrahydrofuran	0.5	1.47	J	0.08	0.25	0.5	ppbv
540-84-1	2,2,4-Trimethylpentane	1.2	5.6		0.04	0.25	0.5	ppbv
71-43-2	Benzene	0.92	2.94		0.04	0.25	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.25	1.01	U	0.07	0.25	0.5	ppbv
79-01-6	Trichloroethene	0.18	0.97		0.03	0.03	0.06	ppbv
78-87-5	1,2-Dichloropropane	0.25	1.16	U	0.06	0.25	0.5	ppbv
75-27-4	Bromodichloromethane	0.25	1.67	U	0.05	0.25	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.51	2.09		0.06	0.25	0.5	ppbv
108-88-3	Toluene	9.4	35.4		0.05	0.25	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.25	1.13	U	0.07	0.25	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.25	1.13	U	0.06	0.25	0.5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3	SDG No.:	D2545
Lab Sample ID:	D2545-03	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017032.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.25	1.36	U	0.08	0.25	0.5	ppbv
124-48-1	Dibromochloromethane	0.25	2.13	U	0.05	0.25	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.25	1.92	U	0.07	0.25	0.5	ppbv
127-18-4	Tetrachloroethene	45	305	E	0.03	0.03	0.06	ppbv
108-90-7	Chlorobenzene	0.25	1.15	U	0.09	0.25	0.5	ppbv
100-41-4	Ethyl Benzene	2.3	9.99		0.08	0.25	0.5	ppbv
179601-23-1	m/p-Xylene	7.4	32.1		0.11	0.5	1	ppbv
95-47-6	o-Xylene	2.3	9.99		0.07	0.25	0.5	ppbv
100-42-5	Styrene	0.25	1.06	U	0.07	0.25	0.5	ppbv
75-25-2	Bromoform	0.25	2.58	U	0.05	0.25	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.25	1.72	U	0.1	0.25	0.5	ppbv
95-49-8	2-Chlorotoluene	0.25	1.29	U	0.1	0.25	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.62	3.05		0.09	0.25	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	2	9.83		0.1	0.25	0.5	ppbv
622-96-8	4-Ethyltoluene	1.1	5.41		0.08	0.25	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.25	1.5	U	0.08	0.25	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.25	1.5	U	0.06	0.25	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.25	1.5	U	0.07	0.25	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.25	1.86	U	0.04	0.25	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.25	2.67	U	0.08	0.25	0.5	ppbv
106-99-0	1,3-Butadiene	0.25	0.55	U	0.09	0.25	0.5	ppbv
110-54-3	Hexane	0.25	0.88	U	0.04	0.25	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.68			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2330420		6.37				
540-36-3	1,4-Difluorobenzene	7385150		7.93				
3114-55-4	Chlorobenzene-d5	7092800		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3	SDG No.:	D2545
Lab Sample ID:	D2545-03	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017032.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3DL	SDG No.:	D2545
Lab Sample ID:	D2545-03DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017033.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	2.5	12.4	U	0.4	2.5	5	ppbv
75-65-0	tert-Butyl alcohol	5.7	17.3	D	1	2.5	5	ppbv
74-87-3	Chloromethane	2.5	5.16	U	0.6	2.5	5	ppbv
80-62-6	Methyl Methacrylate	2.5	10.2	U	1	2.5	5	ppbv
75-01-4	Vinyl Chloride	2.5	6.39	U	0.7	2.5	5	ppbv
74-83-9	Bromomethane	2.5	9.71	U	0.3	2.5	5	ppbv
75-00-3	Chloroethane	2.5	6.6	U	0.7	2.5	5	ppbv
75-69-4	Trichlorofluoromethane	2.5	14.0	U	0.4	2.5	5	ppbv
76-14-2	Dichlorotetrafluoroethane	2.5	17.5	U	0.4	2.5	5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	19.2	U	0.4	2.5	5	ppbv
593-60-2	Bromoethene	2.5	10.9	U	0.3	2.5	5	ppbv
142-82-5	Heptane	1	4.1	JD	0.6	2.5	5	ppbv
75-35-4	1,1-Dichloroethene	2.5	9.91	U	0.5	2.5	5	ppbv
67-64-1	Acetone	56	133	D	1	2.5	5	ppbv
75-15-0	Carbon Disulfide	2.5	7.79	U	0.5	2.5	5	ppbv
1634-04-4	Methyl tert-Butyl Ether	2.5	9.01	U	0.5	2.5	5	ppbv
75-09-2	Methylene Chloride	2.9	10.1	JD	0.5	2.5	5	ppbv
107-05-1	Allyl Chloride	2.5	7.83	U	0.5	2.5	5	ppbv
156-60-5	trans-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
75-34-3	1,1-Dichloroethane	2.5	10.1	U	0.4	2.5	5	ppbv
110-82-7	Cyclohexane	2.5	8.61	U	0.8	2.5	5	ppbv
78-93-3	2-Butanone	1.8	5.31	JD	1	2.5	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.3	0.3	0.6	ppbv
156-59-2	cis-1,2-Dichloroethene	2.5	9.91	U	0.6	2.5	5	ppbv
67-66-3	Chloroform	2.1	10.3	JD	0.2	2.5	5	ppbv
123-91-1	1,4-Dioxane	2.5	9.01	U	0.9	2.5	5	ppbv
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.3	0.3	0.6	ppbv
109-99-9	Tetrahydrofuran	2.5	7.37	U	0.8	2.5	5	ppbv
540-84-1	2,2,4-Trimethylpentane	2.5	11.7	U	0.4	2.5	5	ppbv
71-43-2	Benzene	2.5	7.99	U	0.4	2.5	5	ppbv
107-06-2	1,2-Dichloroethane	2.5	10.1	U	0.7	2.5	5	ppbv
79-01-6	Trichloroethene	0.3	1.61	U	0.3	0.3	0.6	ppbv
78-87-5	1,2-Dichloropropane	2.5	11.6	U	0.6	2.5	5	ppbv
75-27-4	Bromodichloromethane	2.5	16.8	U	0.5	2.5	5	ppbv
108-10-1	4-Methyl-2-Pentanone	2.5	10.2	U	0.6	2.5	5	ppbv
108-88-3	Toluene	6.6	24.9	D	0.5	2.5	5	ppbv
10061-02-6	t-1,3-Dichloropropene	2.5	11.4	U	0.7	2.5	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	2.5	11.4	U	0.6	2.5	5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3DL	SDG No.:	D2545
Lab Sample ID:	D2545-03DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017033.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	2.5	13.6	U	0.8	2.5	5	ppbv
124-48-1	Dibromochloromethane	2.5	21.3	U	0.5	2.5	5	ppbv
106-93-4	1,2-Dibromoethane	2.5	19.2	U	0.7	2.5	5	ppbv
127-18-4	Tetrachloroethene	38	257	D	0.3	0.3	0.6	ppbv
108-90-7	Chlorobenzene	2.5	11.5	U	0.9	2.5	5	ppbv
100-41-4	Ethyl Benzene	1.6	6.95	JD	0.8	2.5	5	ppbv
179601-23-1	m/p-Xylene	5.4	23.5	JD	1.1	5	10	ppbv
95-47-6	o-Xylene	1.9	8.25	JD	0.7	2.5	5	ppbv
100-42-5	Styrene	2.5	10.6	U	0.7	2.5	5	ppbv
75-25-2	Bromoform	2.5	25.8	U	0.5	2.5	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	2.5	17.2	U	1	2.5	5	ppbv
95-49-8	2-Chlorotoluene	2.5	12.9	U	1	2.5	5	ppbv
108-67-8	1,3,5-Trimethylbenzene	2.5	12.3	U	0.9	2.5	5	ppbv
95-63-6	1,2,4-Trimethylbenzene	1.6	7.87	JD	1	2.5	5	ppbv
622-96-8	4-Ethyltoluene	2.5	12.3	U	0.8	2.5	5	ppbv
541-73-1	1,3-Dichlorobenzene	2.5	15.0	U	0.8	2.5	5	ppbv
106-46-7	1,4-Dichlorobenzene	2.5	15.0	U	0.6	2.5	5	ppbv
95-50-1	1,2-Dichlorobenzene	2.5	15.0	U	0.7	2.5	5	ppbv
120-82-1	1,2,4-Trichlorobenzene	2.5	18.6	U	0.4	2.5	5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	2.5	26.7	U	0.8	2.5	5	ppbv
106-99-0	1,3-Butadiene	2.5	5.53	U	0.9	2.5	5	ppbv
110-54-3	Hexane	2.5	8.81	U	0.4	2.5	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.84			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2429490		6.37				
540-36-3	1,4-Difluorobenzene	8337880		7.93				
3114-55-4	Chlorobenzene-d5	7800700		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	05/03/12
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	05/04/12
Client Sample ID:	VP-3DL	SDG No.:	D2545
Lab Sample ID:	D2545-03DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017033.D	10		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH

QC SUMMARY

CHEMTECH

Surrogate Summary

SDG No.: D2545

Client: J.R.Holzmacher P.E., LLC

Analytical Method: EPA SW846 TO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
BSL0506A	BSL0506A	1-Bromo-4-Fluorobenzene	10	10.04	100		65	135
D2545-01	VP-1	1-Bromo-4-Fluorobenzene	10	9.94	99		65	135
D2545-01DL	VP-1DL	1-Bromo-4-Fluorobenzene	10	10.02	100		65	135
D2545-02	VP-2	1-Bromo-4-Fluorobenzene	10	9.59	96		65	135
D2545-02DL	VP-2DL	1-Bromo-4-Fluorobenzene	10	9.8	98		65	135
D2545-03	VP-3	1-Bromo-4-Fluorobenzene	10	9.68	97		65	135
D2545-03DL	VP-3DL	1-Bromo-4-Fluorobenzene	10	9.84	98		65	135
VBL0506A	VBL0506A	1-Bromo-4-Fluorobenzene	10	9.92	99		65	135

CHEMTECH

AIR VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** J.R.Holzmacher P.E., LLC

Lab Code: CHEM **Cas No:** D2545 **SAS No :** D2545 **SDG No:** D2545

Matrix Spike - EPA Sample No : BSL0506A **Analytical Method:** EPA SW846 TO-15 **Datafile :** VL017014.D

COMPOUND	SPIKE ADDED (ppbv)	CONCENTRATION (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC#	QC LIMITS REC
Dichlorodifluoromethane	10		9.6	96	(70-130)
tert-Butyl alcohol	10		9.1	91	(70-130)
Chloromethane	10		8.8	88	(70-130)
Methyl Methacrylate	10		11	110	(70-130)
Vinyl Chloride	10		9.0	90	(70-130)
Bromomethane	10		8.7	87	(70-130)
Chloroethane	10		8.7	87	(70-130)
Trichlorofluoromethane	10		8.9	89	(70-130)
Dichlorotetrafluoroethane	10		8.9	89	(70-130)
1,1,2-Trichlorotrifluoroethane	10		8.8	88	(70-130)
Bromoethene	10		9.2	92	(70-130)
Heptane	10		10	100	(70-130)
1,1-Dichloroethene	10		9.1	91	(70-130)
Acetone	10		7.3	73	(70-130)
Carbon Disulfide	10		9.0	90	(70-130)
Methyl tert-Butyl Ether	10		10	100	(70-130)
Methylene Chloride	10		8.0	80	(70-130)
Allyl Chloride	10		9.1	91	(70-130)
trans-1,2-Dichloroethene	10		9.8	98	(70-130)
1,1-Dichloroethane	10		9.3	93	(70-130)
Cyclohexane	10		10	100	(70-130)
2-Butanone	10		9.3	93	(70-130)
Carbon Tetrachloride	10		9.2	92	(70-130)
cis-1,2-Dichloroethene	10		10	100	(70-130)
Chloroform	10		9.3	93	(70-130)
1,4-Dioxane	10		9.8	98	(70-130)
1,1,1-Trichloroethane	10		9.7	97	(70-130)
Tetrahydrofuran	10		10	100	(70-130)
2,2,4-Trimethylpentane	10		9.7	97	(70-130)
Benzene	10		9.6	96	(70-130)
1,2-Dichloroethane	10		9.0	90	(70-130)
Trichloroethene	10		11	110	(70-130)
1,2-Dichloropropane	10		9.5	95	(70-130)
Bromodichloromethane	10		9.6	96	(70-130)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

Comments: _____

CHEMTECH

AIR VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** J.R.Holzmacher P.E., LLC

Lab Code: CHEM **Cas No:** D2545 **SAS No :** D2545 **SDG No:** D2545

Matrix Spike - EPA Sample No : BSL0506A **Analytical Method:** EPA SW846 TO-15 **Datafile :** VL017014.D

COMPOUND	SPIKE ADDED (ppbv)	CONCENTRATION (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC#	QC LIMITS REC
4-Methyl-2-Pentanone	10		10	100	(70-130)
Toluene	10		11	110	(70-130)
t-1,3-Dichloropropene	10		11	110	(70-130)
cis-1,3-Dichloropropene	10		11	110	(70-130)
1,1,2-Trichloroethane	10		9.5	95	(70-130)
Dibromochloromethane	10		10	100	(70-130)
1,2-Dibromoethane	10		10	100	(70-130)
Tetrachloroethene	10		11	110	(70-130)
Chlorobenzene	10		9.0	90	(70-130)
Ethyl Benzene	10		10	100	(70-130)
m/p-Xylene	20		19	95	(70-130)
o-Xylene	10		9.9	99	(70-130)
Styrene	10		11	110	(70-130)
Bromoform	10		11	110	(70-130)
1,1,2,2-Tetrachloroethane	10		8.7	87	(70-130)
2-Chlorotoluene	10		11	110	(70-130)
1,3,5-Trimethylbenzene	10		10	100	(70-130)
1,2,4-Trimethylbenzene	10		9.8	98	(70-130)
4-Ethyltoluene	10		10	100	(70-130)
1,3-Dichlorobenzene	10		9.3	93	(70-130)
1,4-Dichlorobenzene	10		9.6	96	(70-130)
1,2-Dichlorobenzene	10		9.5	95	(70-130)
1,2,4-Trichlorobenzene	10		9.5	95	(70-130)
Hexachloro-1,3-Butadiene	10		9.5	95	(70-130)
1,3-Butadiene	10		9.3	93	(70-130)
Hexane	10		9.4	94	(70-130)

RPD : 0 Out of 60 outside limits

Spike Recovery : 0 Out of 60 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

Comments: _____

CHEMTECH

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBL0506A

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG NO.: D2545

Lab File ID: VL017013.D Lab Sample ID: VBL0506A

Date Analyzed: 05/06/2012 Time Analyzed: 06:04

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSL0506A	BSL0506A	VL017014.D	05/06/2012
VP-1	D2545-01	VL017028.D	05/06/2012
VP-2	D2545-02	VL017029.D	05/06/2012
VP-2DL	D2545-02DL	VL017030.D	05/06/2012
VP-1DL	D2545-01DL	VL017031.D	05/06/2012
VP-3	D2545-03	VL017032.D	05/06/2012
VP-3DL	D2545-03DL	VL017033.D	05/06/2012

COMMENTS:

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG NO.: D2545

Lab File ID: VL017006.D BFB Injection Date: 05/06/2012

Instrument ID: MSVOA_L BFB Injection Time: 00:46

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.2
75	30.0 - 66.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 120.0% of mass 95	76.3
175	4.0 - 9.0% of mass 174	5.5 (7.2) 1
176	93.0 - 101.0% of mass 174	74.2 (97.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10 PPB ICC	10 PPB ICC	VL017007.D	05/06/2012	01:34
2 PPB ICC	2 PPB ICC	VL017008.D	05/06/2012	02:16
1 PPB ICC	1 PPB ICC	VL017009.D	05/06/2012	02:54
15 PPB ICC	15 PPB ICC	VL017010.D	05/06/2012	03:35
0.5 PPB ICC	0.5 PPB ICC	VL017011.D	05/06/2012	04:13
VBL0506A	VBL0506A	VL017013.D	05/06/2012	06:04
BSL0506A	BSL0506A	VL017014.D	05/06/2012	06:53
0.1 RPT CHECK	0.1 RPT CHECK	VL017015.D	05/06/2012	07:41
0.03 RPT CHECK	0.03 RPT CHECK	VL017016.D	05/06/2012	08:20
VP-1	D2545-01	VL017028.D	05/06/2012	18:14
VP-2	D2545-02	VL017029.D	05/06/2012	18:56
VP-2DL	D2545-02DL	VL017030.D	05/06/2012	19:36
VP-1DL	D2545-01DL	VL017031.D	05/06/2012	20:17
VP-3	D2545-03	VL017032.D	05/06/2012	20:58
VP-3DL	D2545-03DL	VL017033.D	05/06/2012	21:39

CHEMTECH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG NO.: D2545

Lab File ID: VL017007.D Date Analyzed: 05/06/2012

Instrument ID: MSVOA_L Time Analyzed: 01:34

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	2479304	6.37	6064241	7.94	6024374	12.91
UPPER LIMIT	3471026	6.70	8489937	8.27	8434123	13.24
LOWER LIMIT	1487582	6.04	3638545	7.61	3614624	12.58
EPA SAMPLE NO.						
BSL0506A	2558827	6.37	6714686	7.94	6650548	12.91
VP-1	2187393	6.37	5365820	7.93	6046858	12.91
VP-1DL	2394122	6.37	8004300	7.93	7635893	12.91
VP-2	2312368	6.37	7261883	7.93	6913155	12.91
VP-2DL	2423433	6.37	8331705	7.93	7811160	12.91
VP-3	2330419	6.37	7385154	7.93	7092800	12.91
VP-3DL	2429489	6.37	8337876	7.93	7800704	12.91
VBL0506A	2790192	6.37	6993416	7.93	6398496	12.91

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT UPPER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG NO.: D2545

Lab File ID: VL017007.D Date Analyzed: 05/06/2012

Instrument ID: MSVOA_L Time Analyzed: 01:34

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0	0				
LOWER LIMIT	0	0				
EPA SAMPLE NO.						
BSL0506A	0	0.00				
VP-1	0	0.00				
VP-1DL	0	0.00				
VP-2	0	0.00				
VP-2DL	0	0.00				
VP-3	0	0.00				
VP-3DL	0	0.00				
VBL0506A	0	0.00				

IS4 =

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH

RAW QC DATA

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	VBL0506A	SDG No.:	D2545
Lab Sample ID:	VBL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017013.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.25	1.24	U	0.04	0.25	0.5	ppbv
75-65-0	tert-Butyl alcohol	0.25	0.76	U	0.1	0.25	0.5	ppbv
74-87-3	Chloromethane	0.25	0.52	U	0.06	0.25	0.5	ppbv
80-62-6	Methyl Methacrylate	0.25	1.02	U	0.1	0.25	0.5	ppbv
75-01-4	Vinyl Chloride	0.25	0.64	U	0.07	0.25	0.5	ppbv
74-83-9	Bromomethane	0.25	0.97	U	0.03	0.25	0.5	ppbv
75-00-3	Chloroethane	0.25	0.66	U	0.07	0.25	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.25	1.4	U	0.04	0.25	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.25	1.75	U	0.04	0.25	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.92	U	0.04	0.25	0.5	ppbv
593-60-2	Bromoethene	0.25	1.09	U	0.03	0.25	0.5	ppbv
142-82-5	Heptane	0.25	1.02	U	0.06	0.25	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.25	0.99	U	0.05	0.25	0.5	ppbv
67-64-1	Acetone	0.25	0.59	U	0.1	0.25	0.5	ppbv
75-15-0	Carbon Disulfide	0.25	0.78	U	0.05	0.25	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.25	0.9	U	0.05	0.25	0.5	ppbv
75-09-2	Methylene Chloride	0.25	0.87	U	0.05	0.25	0.5	ppbv
107-05-1	Allyl Chloride	0.25	0.78	U	0.05	0.25	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.25	1.01	U	0.04	0.25	0.5	ppbv
110-82-7	Cyclohexane	0.25	0.86	U	0.08	0.25	0.5	ppbv
78-93-3	2-Butanone	0.25	0.74	U	0.1	0.25	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.03	0.03	0.06	ppbv
156-59-2	cis-1,2-Dichloroethene	0.25	0.99	U	0.06	0.25	0.5	ppbv
67-66-3	Chloroform	0.25	1.22	U	0.02	0.25	0.5	ppbv
123-91-1	1,4-Dioxane	0.25	0.9	U	0.09	0.25	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.06	ppbv
109-99-9	Tetrahydrofuran	0.25	0.74	U	0.08	0.25	0.5	ppbv
540-84-1	2,2,4-Trimethylpentane	0.25	1.17	U	0.04	0.25	0.5	ppbv
71-43-2	Benzene	0.25	0.8	U	0.04	0.25	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.25	1.01	U	0.07	0.25	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.03	0.03	0.06	ppbv
78-87-5	1,2-Dichloropropane	0.25	1.16	U	0.06	0.25	0.5	ppbv
75-27-4	Bromodichloromethane	0.25	1.67	U	0.05	0.25	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.25	1.02	U	0.06	0.25	0.5	ppbv
108-88-3	Toluene	0.25	0.94	U	0.05	0.25	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.25	1.13	U	0.07	0.25	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.25	1.13	U	0.06	0.25	0.5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	VBL0506A	SDG No.:	D2545
Lab Sample ID:	VBL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017013.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.25	1.36	U	0.08	0.25	0.5	ppbv
124-48-1	Dibromochloromethane	0.25	2.13	U	0.05	0.25	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.25	1.92	U	0.07	0.25	0.5	ppbv
127-18-4	Tetrachloroethene	0.03	0.2	U	0.03	0.03	0.06	ppbv
108-90-7	Chlorobenzene	0.25	1.15	U	0.09	0.25	0.5	ppbv
100-41-4	Ethyl Benzene	0.25	1.09	U	0.08	0.25	0.5	ppbv
179601-23-1	m/p-Xylene	0.5	2.17	U	0.11	0.5	1	ppbv
95-47-6	o-Xylene	0.25	1.09	U	0.07	0.25	0.5	ppbv
100-42-5	Styrene	0.25	1.06	U	0.07	0.25	0.5	ppbv
75-25-2	Bromoform	0.25	2.58	U	0.05	0.25	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.25	1.72	U	0.1	0.25	0.5	ppbv
95-49-8	2-Chlorotoluene	0.25	1.29	U	0.1	0.25	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.25	1.23	U	0.09	0.25	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.25	1.23	U	0.1	0.25	0.5	ppbv
622-96-8	4-Ethyltoluene	0.25	1.23	U	0.08	0.25	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.25	1.5	U	0.08	0.25	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.25	1.5	U	0.06	0.25	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.25	1.5	U	0.07	0.25	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.25	1.86	U	0.04	0.25	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.25	2.67	U	0.08	0.25	0.5	ppbv
106-99-0	1,3-Butadiene	0.25	0.55	U	0.09	0.25	0.5	ppbv
110-54-3	Hexane	0.25	0.88	U	0.04	0.25	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.92			65 - 135		99%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2790190		6.37				
540-36-3	1,4-Difluorobenzene	6993420		7.93				
3114-55-4	Chlorobenzene-d5	6398500		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	VBL0506A	SDG No.:	D2545
Lab Sample ID:	VBL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017013.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	BSL0506A	SDG No.:	D2545
Lab Sample ID:	BSL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017014.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	9.6	47.5		0.04	0.25	0.5	ppbv
75-65-0	tert-Butyl alcohol	9.1	27.6		0.1	0.25	0.5	ppbv
74-87-3	Chloromethane	8.8	18.2		0.06	0.25	0.5	ppbv
80-62-6	Methyl Methacrylate	11	45.0		0.1	0.25	0.5	ppbv
75-01-4	Vinyl Chloride	9	23.0		0.07	0.25	0.5	ppbv
74-83-9	Bromomethane	8.7	33.8		0.03	0.25	0.5	ppbv
75-00-3	Chloroethane	8.7	23.0		0.07	0.25	0.5	ppbv
75-69-4	Trichlorofluoromethane	8.9	50.0		0.04	0.25	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	8.9	62.2		0.04	0.25	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	8.8	67.4		0.04	0.25	0.5	ppbv
593-60-2	Bromoethene	9.2	40.2		0.03	0.25	0.5	ppbv
142-82-5	Heptane	10	41.0		0.06	0.25	0.5	ppbv
75-35-4	1,1-Dichloroethene	9.1	36.1		0.05	0.25	0.5	ppbv
67-64-1	Acetone	7.3	17.3		0.1	0.25	0.5	ppbv
75-15-0	Carbon Disulfide	9	28.0		0.05	0.25	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	10	36.0		0.05	0.25	0.5	ppbv
75-09-2	Methylene Chloride	8	27.8		0.05	0.25	0.5	ppbv
107-05-1	Allyl Chloride	9.1	28.5		0.05	0.25	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	9.8	38.9		0.06	0.25	0.5	ppbv
75-34-3	1,1-Dichloroethane	9.3	37.6		0.04	0.25	0.5	ppbv
110-82-7	Cyclohexane	10	34.4		0.08	0.25	0.5	ppbv
78-93-3	2-Butanone	9.3	27.4		0.1	0.25	0.5	ppbv
56-23-5	Carbon Tetrachloride	9.2	57.9		0.03	0.03	0.06	ppbv
156-59-2	cis-1,2-Dichloroethene	10	39.6		0.06	0.25	0.5	ppbv
67-66-3	Chloroform	9.3	45.4		0.02	0.25	0.5	ppbv
123-91-1	1,4-Dioxane	9.8	35.3		0.09	0.25	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	9.7	52.9		0.03	0.03	0.06	ppbv
109-99-9	Tetrahydrofuran	10	29.5		0.08	0.25	0.5	ppbv
540-84-1	2,2,4-Trimethylpentane	9.7	45.3		0.04	0.25	0.5	ppbv
71-43-2	Benzene	9.6	30.7		0.04	0.25	0.5	ppbv
107-06-2	1,2-Dichloroethane	9	36.4		0.07	0.25	0.5	ppbv
79-01-6	Trichloroethene	11	59.1		0.03	0.03	0.06	ppbv
78-87-5	1,2-Dichloropropane	9.5	43.9		0.06	0.25	0.5	ppbv
75-27-4	Bromodichloromethane	9.6	64.3		0.05	0.25	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	10	41.0		0.06	0.25	0.5	ppbv
108-88-3	Toluene	11	41.4		0.05	0.25	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	11	49.9		0.07	0.25	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	11	49.9		0.06	0.25	0.5	ppbv

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	BSL0506A	SDG No.:	D2545
Lab Sample ID:	BSL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017014.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	9.5	51.8		0.08	0.25	0.5	ppbv
124-48-1	Dibromochloromethane	10	85.2		0.05	0.25	0.5	ppbv
106-93-4	1,2-Dibromoethane	10	76.8		0.07	0.25	0.5	ppbv
127-18-4	Tetrachloroethene	11	74.6		0.03	0.03	0.06	ppbv
108-90-7	Chlorobenzene	9	41.4		0.09	0.25	0.5	ppbv
100-41-4	Ethyl Benzene	10	43.4		0.08	0.25	0.5	ppbv
179601-23-1	m/p-Xylene	19	82.5		0.11	0.5	1	ppbv
95-47-6	o-Xylene	9.9	43		0.07	0.25	0.5	ppbv
100-42-5	Styrene	11	46.8		0.07	0.25	0.5	ppbv
75-25-2	Bromoform	11	113		0.05	0.25	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	8.7	59.7		0.1	0.25	0.5	ppbv
95-49-8	2-Chlorotoluene	11	57.0		0.1	0.25	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	10	49.2		0.09	0.25	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	9.8	48.2		0.1	0.25	0.5	ppbv
622-96-8	4-Ethyltoluene	10	49.2		0.08	0.25	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	9.3	55.9		0.08	0.25	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	9.6	57.7		0.06	0.25	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	9.5	57.1		0.07	0.25	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	9.5	70.5		0.04	0.25	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	9.5	101		0.08	0.25	0.5	ppbv
106-99-0	1,3-Butadiene	9.3	20.6		0.09	0.25	0.5	ppbv
110-54-3	Hexane	9.4	33.1		0.04	0.25	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	2558830		6.37				
540-36-3	1,4-Difluorobenzene	6714690		7.94				
3114-55-4	Chlorobenzene-d5	6650550		12.91				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	
Project:	KoptD 12-02-224Merrick Blvd. Qns NY	Date Received:	
Client Sample ID:	BSL0506A	SDG No.:	D2545
Lab Sample ID:	BSL0506A	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL017014.D	1		05/06/12	VL050612

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH

CALIBRATION SUMMARY

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG No.: D2545

Instrument ID: MSVOA_L Calibration Date(s): 05/06/2012 05/06/2012

Heated Purge: (Y/N) N Calibration Time(s): 01:34 04:13

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF0.50 = VL017011.D RRF001 = VL017009.D RRF002 = VL017008.D
RRF010 = VL017007.D RRF015 = VL017010.D RRF =

COMPOUND	RRF0.50	RRF001	RRF002	RRF010	RRF015	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.905	2.564	2.186	2.126	1.990		2.354	15.9
tert-Butyl alcohol	1.656	1.662	1.538	1.591	1.506		1.591	4.4
Chloromethane	1.089	1.041	1.014	0.947	0.918		1.002	6.9
Methyl Methacrylate	0.240	0.285	0.351	0.476	0.476		0.366	29.6
Vinyl Chloride	1.077	1.020	1.039	0.978	0.988		1.021	3.9
Bromomethane	0.834	0.796	0.763	0.715	0.742		0.77	6.1
Chloroethane	0.489	0.450	0.453	0.423	0.424		0.448	6
Trichlorofluoromethane	3.490	3.483	3.339	3.101	3.160		3.315	5.4
Dichlorotetrafluoroethane	2.847	2.650	2.664	2.494	2.534		2.638	5.2
1,1,2-Trichlorotrifluoroethane	2.503	2.534	2.394	2.274	2.355		2.412	4.4
Bromoethene	0.950	0.908	0.904	0.894	0.946		0.921	2.8
Heptane	1.327	1.555	1.688	1.808	1.824		1.64	12.6
1,1-Dichloroethene	1.030	1.012	1.016	0.984	1.027		1.014	1.8
Acetone	2.210	2.214	2.087	1.507	1.479		1.899	19.7
Carbon Disulfide	2.586	2.697	2.666	2.536	2.562		2.609	2.6
Methyl tert-Butyl Ether	1.953	2.146	2.451	2.743	2.801		2.419	15.2
Methylene Chloride	1.381	1.229	1.108	0.904	0.934		1.111	18.1
Allyl Chloride	0.882	0.935	0.944	0.940	0.926		0.926	2.7
trans-1,2-Dichloroethene	0.803	0.756	0.788	0.836	0.894		0.815	6.4
1,1-Dichloroethane	1.873	1.852	1.865	1.864	1.916		1.874	1.3
Cyclohexane	0.877	0.918	1.028	1.153	1.262		1.048	15.3
2-Butanone	0.677	0.702	0.774	0.807	0.752		0.742	7.1
Carbon Tetrachloride	0.765	0.805	0.794	0.874	0.894		0.826	6.7
cis-1,2-Dichloroethene	0.957	0.997	1.141	1.294	1.353		1.148	15.2
Chloroform	2.126	2.164	2.097	2.119	2.258		2.153	3
1,4-Dioxane	0.083	0.076	0.072	0.088	0.081		0.08	7.9
1,1,1-Trichloroethane	1.877	1.934	1.941	2.062	2.221		2.007	6.8
Tetrahydrofuran	0.278	0.311	0.382	0.445	0.424		0.368	19.5
2,2,4-Trimethylpentane	1.344	1.582	1.742	1.817	1.639		1.625	11.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG No.: D2545

Instrument ID: MSVOA_L Calibration Date(s): 05/06/2012 05/06/2012

Heated Purge: (Y/N) N Calibration Time(s): 01:34 04:13

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF0.50 = VL017011.D RRF001 = VL017009.D RRF002 = VL017008.D
RRF010 = VL017007.D RRF015 = VL017010.D RRF =

COMPOUND	RRF0.50	RRF001	RRF002	RRF010	RRF015	RRF	$\overline{RRF}$	% RSD
Benzene	0.898	0.939	1.027	1.101	1.076		1.008	8.7
1,2-Dichloroethane	0.635	0.646	0.649	0.670	0.652		0.651	2
Trichloroethene	0.364	0.384	0.416	0.538	0.583		0.457	21.4
1,2-Dichloropropane	0.336	0.347	0.371	0.405	0.392		0.37	7.9
Bromodichloromethane	0.776	0.817	0.834	0.932	0.931		0.858	8.2
4-Methyl-2-Pentanone	0.619	0.756	0.873	1.013	0.953		0.843	18.7
Toluene	0.771	0.941	1.114	1.338	1.359		1.105	23
t-1,3-Dichloropropene	0.335	0.405	0.510	0.649	0.662		0.512	28.3
cis-1,3-Dichloropropene	0.407	0.484	0.597	0.749	0.753		0.598	26
1,1,2-Trichloroethane	0.415	0.422	0.432	0.483	0.505		0.451	8.9
Dibromochloromethane	0.581	0.652	0.678	0.853	0.914		0.736	19.2
1,2-Dibromoethane	0.555	0.603	0.646	0.768	0.812		0.677	16.2
Tetrachloroethene	0.321	0.344	0.374	0.502	0.564		0.421	25.2
Chlorobenzene	1.121	1.171	1.109	1.203	1.338		1.188	7.7
Ethyl Benzene	1.142	1.470	1.641	1.846	1.953		1.61	20
m/p-Xylene	1.134	1.399	1.453	1.576	1.656		1.444	13.9
o-Xylene	1.149	1.452	1.579	1.751	1.814		1.549	17.1
Styrene	0.455	0.656	0.834	1.059	1.183		0.837	35.2
Bromoform	0.464	0.522	0.564	0.747	0.812		0.622	24.2
1,1,2,2-Tetrachloroethane	1.163	1.223	1.173	1.150	1.188		1.179	2.4
2-Chlorotoluene	0.918	1.166	1.340	1.665	1.774		1.373	25.7
1,3,5-Trimethylbenzene	1.190	1.508	1.651	1.860	1.982		1.638	18.9
1,2,4-Trimethylbenzene	1.464	1.742	1.855	2.024	2.093		1.836	13.6
4-Ethyltoluene	1.098	1.415	1.607	1.867	1.998		1.597	22.5
1,3-Dichlorobenzene	1.134	1.235	1.212	1.329	1.445		1.271	9.4
1,4-Dichlorobenzene	1.026	1.135	1.191	1.294	1.430		1.215	12.7
1,2-Dichlorobenzene	1.026	1.125	1.163	1.266	1.398		1.195	11.9
1,2,4-Trichlorobenzene	0.719	0.853	0.934	0.921	1.043		0.894	13.3
Hexachloro-1,3-Butadiene	0.692	0.743	0.756	0.833	0.859		0.776	8.8
1,3-Butadiene	0.748	0.745	0.770	0.760	0.744		0.753	1.5
Hexane	1.336	1.403	1.462	1.447	1.462		1.422	3.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG No.: D2545

Instrument ID: MSVOA_L Calibration Date(s): 05/06/2012 05/06/2012

Heated Purge: (Y/N) N Calibration Time(s): 01:34 04:13

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF0.50 = VL017011.D RRF001 = VL017009.D RRF002 = VL017008.D
RRF010 = VL017007.D RRF015 = VL017010.D RRF =

COMPOUND	RRF0.50	RRF001	RRF002	RRF010	RRF015	RRF	$\overline{RRF}$	% RSD
1-Bromo-4-Fluorobenzene	0.792	0.800	0.757	0.741	0.774		0.773	3.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

*** Compounds with required minimum RRF and maximum %RSD values.**
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG No.: D2545

Instrument ID: MSVOA_L Calibration Date/Time: 05/06/2012 01:34

Lab File ID: VL017007.D Init. Calib. Date(s): 05/06/2012 05/06/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 02:16 04:13

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.411	2.126		-11.82	30
tert-Butyl alcohol	1.591	1.591		0	30
Chloromethane	1.015	0.947		-6.7	30
Methyl Methacrylate	0.338	0.476		40.83	30
Vinyl Chloride	1.031	0.978		-5.14	30
Bromomethane	0.784	0.715		-8.8	30
Chloroethane	0.454	0.423		-6.83	30
Trichlorofluoromethane	3.368	3.101		-7.93	30
Dichlorotetrafluoroethane	2.674	2.494		-6.73	30
1,1,2-Trichlorotrifluoroethane	2.446	2.274		-7.03	30
Bromoethene	0.927	0.894		-3.56	30
Heptane	1.598	1.808		13.14	30
1,1-Dichloroethene	1.021	0.984		-3.62	30
Acetone	1.997	1.507		-24.54	30
Carbon Disulfide	2.628	2.536		-3.5	30
Methyl tert-Butyl Ether	2.338	2.743		17.32	30
Methylene Chloride	1.163	0.904		-22.27	30
Allyl Chloride	0.922	0.940		1.95	30
trans-1,2-Dichloroethene	0.81	0.836		3.21	30
1,1-Dichloroethane	1.876	1.864		-0.64	30
Cyclohexane	1.021	1.153		12.93	30
2-Butanone	0.726	0.807		11.16	30
Carbon Tetrachloride	0.814	0.874		7.37	30
cis-1,2-Dichloroethene	1.112	1.294		16.37	30
Chloroform	2.161	2.119		-1.94	30
1,4-Dioxane	0.078	0.088		12.82	30
1,1,1-Trichloroethane	1.993	2.062		3.46	30
Tetrahydrofuran	0.349	0.445		27.51	30
2,2,4-Trimethylpentane	1.577	1.817		15.22	30
Benzene	0.985	1.101		11.78	30
1,2-Dichloroethane	0.646	0.670		3.72	30
Trichloroethene	0.437	0.538		23.11	30
1,2-Dichloropropane	0.362	0.405		11.88	30
Bromodichloromethane	0.84	0.932		10.95	30
4-Methyl-2-Pentanone	0.8	1.013		26.63	30
Toluene	1.046	1.338		27.92	30
t-1,3-Dichloropropene	0.478	0.649		35.77	30
cis-1,3-Dichloropropene	0.56	0.749		33.75	30

CHEMTECH

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JRHO01

Lab Code: CHEM Case No.: D2545 SAS No.: D2545 SDG No.: D2545

Instrument ID: MSVOA_L Calibration Date/Time: 05/06/2012 01:34

Lab File ID: VL017007.D Init. Calib. Date(s): 05/06/2012 05/06/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 02:16 04:13

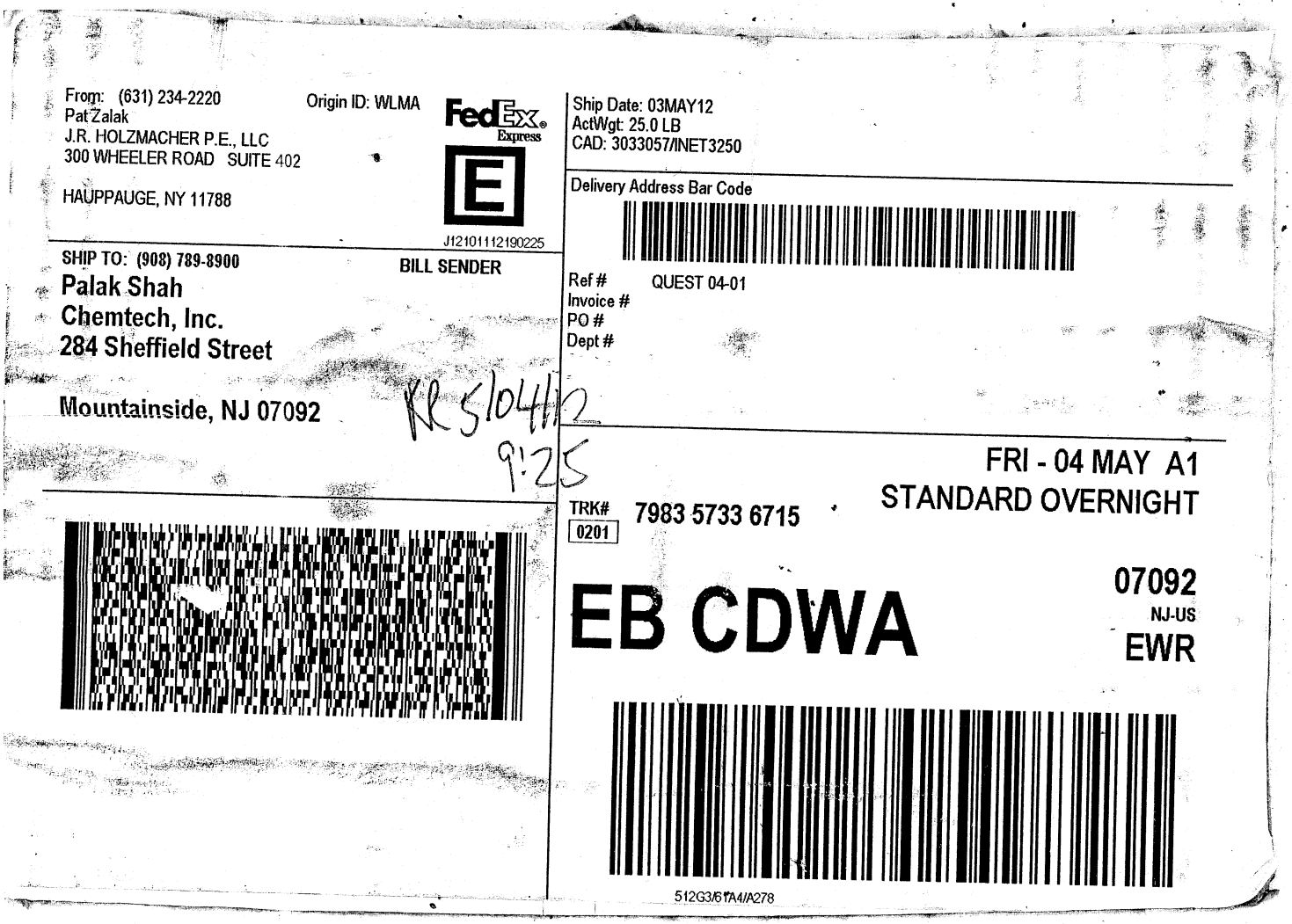
GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
1,1,2-Trichloroethane	0.444	0.483		8.78	30
Dibromochloromethane	0.706	0.853		20.82	30
1,2-Dibromoethane	0.654	0.768		17.43	30
Tetrachloroethene	0.401	0.502		25.19	30
Chlorobenzene	1.185	1.203		1.52	30
Ethyl Benzene	1.552	1.846		18.94	30
m/p-Xylene	1.411	1.576		11.69	30
o-Xylene	1.499	1.751		16.81	30
Styrene	0.782	1.059		35.42	30
Bromoform	0.59	0.747		26.61	30
1,1,2,2-Tetrachloroethane	1.187	1.150		-3.12	30
2-Chlorotoluene	1.299	1.665		28.18	30
1,3,5-Trimethylbenzene	1.583	1.860		17.5	30
1,2,4-Trimethylbenzene	1.788	2.024		13.2	30
4-Ethyltoluene	1.529	1.867		22.11	30
1,3-Dichlorobenzene	1.257	1.329		5.73	30
1,4-Dichlorobenzene	1.195	1.294		8.28	30
1,2-Dichlorobenzene	1.178	1.266		7.47	30
1,2,4-Trichlorobenzene	0.887	0.921		3.83	30
Hexachloro-1,3-Butadiene	0.762	0.833		9.32	30
1,3-Butadiene	0.752	0.760		1.06	30
Hexane	1.416	1.447		2.19	30
1-Bromo-4-Fluorobenzene	0.781	0.741		-5.12	30

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

SHIPPING AND RECEIVING DOCUMENTATION



From: (631) 234-2220
Pat Zalak
J.R. HOLZMACHER P.E., LLC
300 WHEELER ROAD SUITE 402

HAUPPAUGE, NY 11788

Origin ID: WLMA

FedEx Express

J12101112190225

SHIP TO: (908) 789-8900

BILL SENDER

Palak Shah
Chemtech, Inc.
284 Sheffield Street

Mountainside, NJ 07092

RR 5/04/12
9:25

Ship Date: 03MAY12
ActWgt: 25.0 LB
CAD: 3033057/INET3250

Delivery Address Bar Code

Ref # QUEST 04-01
Invoice #
PO #
Dept #

FRI - 04 MAY A1
STANDARD OVERNIGHT

TRK# 0201 7983 5733 6715

EB CDWA

07092
NJ-US
EWR

512G3/61A4/A278

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

CHEMTECH Project No. : D2545

Client Contact Information	Bottle Order ID : **B1204104**	Courier : Fed ex	1 of 3
Client ID : **JRHO01** Project ID : **KoptD 12-02**		Sampler Name(s) : Heather Sonnenberg	Analysis
Customer Name : **J.R.Holzmacher P.E., LLC**	Project Manager : **HEATHER SONNENBERG**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **300 Wheeler Avenue**	Phone Number : **6312342220**		
Suite 402	Fax Number : **6312342221**		
City : **Hauppauge**	Site Details: developed site w/ existing commercial Bldg & paved parking		
State : **NY**	Analysis Turnaround Time Sterdard		
Zip Code : **11788**	Standard : **15 business days**	Data Package Type :	
Country : US	Rush (Specify): N/A **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas		
VP-1	5-3-12	8:20 am	12:20 pm	30	8	50°F	52°F	-30		10767	10275	6 L	25	VL016648.D	✓				

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	50°F			
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) Validated

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: None.

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 4/20/12	Canisters Received by:	Date/Time:	**B1204104 - 1**
Samples Relinquished by:		Date/Time: 5/3/12 1:30 pm	Received by:	Date/Time:	
Relinquished by:	FedEx	Date/Time: 5/04/12 9:15	Received by:	Date/Time: 5/04/12 9:15	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

CHEMTECH Project No. : D2545

Client Contact Information	Bottle Order ID : **B1204104**	Courier : Fed ex	2 of 3 COCs
Client ID : **JRHO01** Project ID :	**KoptD 12-02**	Sampler Name(s) : Heather Sonnenberg	Analysis / Matrix
Customer Name : **J.R.Holzmacher P.E., LLC**	Project Manager : **HEATHER SONNENBERG**		
Address : **300 Wheeler Avenue**	Phone Number : **6312342220**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Suite 402	Fax Number : **6312342221**		
City : **Hauppauge**	Site Details: developed site w/ existing commercial bldg & paved parking		
State : **NY**	Analysis Turnaround Time Standard		
Zip Code : **11788**	Standard : **15 business days**	Data Package Type :	
Country : US	Rush (Specify): N/A **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
VP-2	5-3-12	8:22 AM	12:20	30	5	50°F	52°F	-30		10522	10294	6 L	25	VL016648.D	✓		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	50°F			
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: None

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 5/2/12	Canisters Received by:	Date/Time:	
Samples Relinquished by:		Date/Time: 5/3/12 1:30 pm	Received by:	Date/Time:	B1204104 - 3
Relinquished by: Fed Ex		Date/Time: 5/04/12 9:25	Received by: Ken Lwere	Date/Time: 5/04/12 9:25	

D2545

CHEMTECH

CHEMTECH Project No. :

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Client Contact Information	Bottle Order ID : **B1204104**	Courier : Fedex	3 of 3 COCs
Client ID : **JRHO01** Project ID : **KoptD 12-02**		Sampler Name(s) : Heather Sonnenberg	Analysis / Matrix
Customer Name : **J.R.Holzmacher P.E., LLC**	Project Manager : **HEATHER SONNENBERG**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **300 Wheeler Avenue** **Suite 402**	Phone Number : **6312342220**		
	Fax Number : **6312342221**		
City : **Hauppauge**	Site Details: developed site w/ existing commercial bldg & paved parking		
State : **NY**	Analysis Turnaround Time Standard		
Zip Code : **11788**	Standard : **15 business days**	Data Package Type :	
Country : US	Rush (Specify): N/A **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID	TO-15
VP-3	5-3-12	8:35 AM	12:30 pm	30	5	58°F	52°F	-30		10623	10284	6 L	25	VL016648.D	✓

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start	58°F			
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) Verified

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: none

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 4/20/12	Canisters Received by:	Date/Time:	B1204104 - 2
Samples Relinquished by:	Date/Time: 5/3/12 1:30 PM	Received by:	Date/Time:	
Relinquished by:	Date/Time: 5/04/12 9:25	Received by:	Date/Time: 5/04/12 9:25	

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other:

DOD ELAP	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148

END OF ANALYTICAL RESULTS

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside,NJ 7092
~~SNEHAL~~
Title: Sample Custodian
Field Sample Seal No.: D2545
Date Broken: 5/4/2012
Military Time Seal Broken: 09:25:00
Case No.: KoptD 12-02-224Merrick B
Analytical Parameter/Fraction: SUMMA Canister Rental

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
D2545-01	VP-1		
D2545-02	VP-2		
D2545-03	VP-3		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
5/7/12	13:30	Signature [signature]	Signature [signature]	TO VOA OAV Lab
		Printed Name SNEHAL	Printed Name [illegible]	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*