



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1601783**  
 Project: **255 East 138th Street**

Calibration:	16I2601	Instrument:	GC/MS A
		Calibration Date:	9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.269878	5.462766		
Styrene	1.004685	3.654105		
Bromoform	0.126804	12.77923	SPCC (0.1)	
Isopropylbenzene	3.577724	2.811909		
1,1,2,2-Tetrachloroethane	0.5674752	5.514581	SPCC (0.3)	
1,2,3-Trichloropropane	0.4067208	2.182686		
n-Propyl Benzene	4.507736	4.861344		
Bromobenzene	1.26774	2.283857		
1,3,5-Trimethylbenzene	2.70715	1.972619		
2-Chlorotoluene	2.418182	4.192353		
4-Chlorotoluene	2.495661	5.635875		
tert-Butylbenzene	2.362289	2.381115		
1,2,4-Trimethylbenzene	2.733594	2.861654		
sec-Butylbenzene	3.796163	4.092442		
p-Isopropyltoluene	3.018334	2.96632		
1,3-Dichlorobenzene	1.483864	2.832892		
1,4-Dichlorobenzene	1.461118	5.01866		
n-Butyl Benzene	3.153113	5.000167		
1,2-Dichlorobenzene	1.271064	4.206623		
1,2-Dibromo-3-chloropropane	7.382205E-02	31.5289		
1,2,4-Trichlorobenzene	0.8197279	7.165339		
Hexachlorobutadiene	0.3444627	5.335948		
Naphthalene	1.466261	5.928814		
1,2,3-Trichlorobenzene	0.6870029	8.746632		
Methyl tert-Butyl Ether	1.836288	2.60316		



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1601783  
 Project: 255 East 138th Street

Instrument ID: GC/MS A	Calibration: 16H2903
Lab File ID: A9499.D	Calibration Date: 08/29/16 19:56
Sequence: S612006	Injection Date: 09/20/16
Lab Sample ID: S612006-CCV1	Injection Time: 11:16

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	204	5.094183E-02	4.154578E-02		-18.4	
Acrylonitrile	A	250	217	0.1167273	0.1012674		-13.2	
Acetone	L	50.0	44.3	0.1747694	0.1189507		-31.9	
Dichlorodifluoromethane	A	50.0	53.8	0.3620657	0.3897551		7.6	
Chloromethane	A	50.0	46.2	0.6446193	0.5958817	0.1	-7.6	
Vinyl chloride	A	50.0	49.4	0.6338856	0.6265385		-1.2	20
Bromomethane	A	50.0	47.5	0.4973511	0.4723038		-5.0	
Chloroethane	A	50.0	44.2	0.2364184	0.2090451		-11.6	
Trichlorofluoromethane	A	50.0	57.4	0.6040865	0.6932233		14.8	
Freon 113	A	50.0	46.6	0.5460094	0.5087727		-6.8	
1,1-Dichloroethene	A	50.0	44.3	0.8821578	0.7823481		-11.3	20
Carbon disulfide	A	50.0	44.1	2.237789	1.971849		-11.9	
Methyl Acetate	A	50.0	36.8	0.2835279	0.2085684		-26.4	
Methylene Chloride	L	50.0	41.5	1.877848	0.8343156		-55.6	
trans-1,2-Dichloroethene	A	50.0	43.5	0.8991449	0.7814678		-13.1	
1,1-Dichloroethane	A	50.0	40.5	1.058622	0.8582316	0.1	-18.9	
Vinyl acetate	A	50.0	43.9	0.9809122	0.8603935		-12.3	
2,2-Dichloropropane	A	50.0	49.1	0.8359179	0.820917		-1.8	
2-Butanone	A	50.0	41.6	0.1839178	0.1528516		-16.9	
cis-1,2-Dichloroethene	A	50.0	43.0	0.8114303	0.6980734		-14.0	
Chloroform	A	50.0	43.6	1.02525	0.8945742		-12.7	20
Bromochloromethane	A	50.0	41.6	0.3642218	0.302786		-16.9	
Cyclohexane	A	50.0	43.2	0.9915085	0.8577375		-13.5	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1601783  
 Project: 255 East 138th Street

Instrument ID: GC/MS A

Calibration: 1612601

Lab File ID: A9571.D

Calibration Date: 09/22/16 14:34

Sequence: S612304

Injection Date: 09/23/16

Lab Sample ID: S612304-CCV1

Injection Time: 08:39

COMPOUND	TYPE	CONC. (ug/L)			RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	218	5.351277E-02	4.672712E-02		-12.7	
Acrylonitrile	A	250	227	0.1259208	0.1144564		-9.1	
Acetone	L	50.0	44.5	0.15486	0.1096255		-29.2	
Dichlorodifluoromethane	L	50.0	54.4	0.499218	0.5210484		4.4	
Chloromethane	A	50.0	50.2	0.8073298	0.8111959	0.1	0.5	
Vinyl chloride	A	50.0	50.6	0.7694418	0.7782716		1.1	20
Bromomethane	A	50.0	48.8	0.5686235	0.5549373		-2.4	
Chloroethane	A	50.0	45.1	0.2688624	0.2425365		-9.8	
Trichlorofluoromethane	A	50.0	50.7	0.6190958	0.6277266		1.4	
Freon 113	A	50.0	44.5	0.6712929	0.5975678		-11.0	
1,1-Dichloroethene	A	50.0	43.0	0.7483666	0.644298		-13.9	20
Carbon disulfide	A	50.0	43.8	2.187451	1.916687		-12.4	
Methyl Acetate	A	50.0	40.7	0.2917014	0.2371836		-18.7	
Methylene Chloride	L	50.0	45.5	1.217577	0.6982724		-42.7	
trans-1,2-Dichloroethene	A	50.0	44.1	0.7800425	0.6875176		-11.9	
1,1-Dichloroethane	A	50.0	46.1	0.9053845	0.8343998	0.1	-7.8	
Vinyl acetate	A	50.0	45.7	0.9979671	0.9113644		-8.7	
2,2-Dichloropropane	A	50.0	47.2	0.6953845	0.656054		-5.7	
2-Butanone	A	50.0	42.6	0.1759346	0.1499239		-14.8	
cis-1,2-Dichloroethene	A	50.0	45.7	0.6901689	0.6307991		-8.6	
Chloroform	A	50.0	45.4	0.8372235	0.7599279		-9.2	20
Bromochloromethane	A	50.0	47.0	0.2956708	0.2780195		-6.0	
Cyclohexane	A	50.0	44.5	1.170159	1.041328		-11.0	



## SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Project: **255 East 138th Street**  
 Work Order: **1601783**

Matrix: **Solid**  
 Instrument: **GC/MS E**

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NB2 (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPM (30% - 130%)	
1601783-01	0.9*	84	98	11*	0.8*	83	- < 10% - R - non-detects / J detect
1601783-01RE1	0.9*	98	102	11*	1*	100	- < 10% - R - non-detects / J detect
B612101-BLK1	97	85	97	99	82	107	
B612101-BS1	65	75	76	71	92	94	
B612101-MS1	68	72	69	71	73	195*	
B612101-MSD1	69	74	70	71	72	219*	



## LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Project: **255 East 138th Street**  
 Work Order: **1601783**

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I2101	Lab Sample ID:	B6I2101-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	960	58	20 - 160
N-Nitrosodimethylamine	1670	1190	72	20 - 160
Aniline	1670	1160	70	20 - 160
Phenol	1670	1290	78	20 - 160
bis(2-chloroethyl)ether	1670	1300	78	70 - 130
2-Chlorophenol	1670	1370	82	70 - 130
1,3-Dichlorobenzene	1670	1260	75	70 - 130
1,4-Dichlorobenzene	1670	1260	76	70 - 130
Benzyl alcohol	1670	1350	81	20 - 160
1,2-Dichlorobenzene	1670	1270	76	70 - 130
2-Methylphenol	1670	1340	80	20 - 160
bis(2-chloroisopropyl)ether	1670	1410	85	70 - 130
3 & 4-Methylphenol	1670	1440	86	20 - 160
N-Nitroso-di-n-propylamine	1670	1320	79	70 - 130
Hexachloroethane	1670	1320	79	20 - 160
Nitrobenzene	1670	1300	78	70 - 130
Isophorone	1670	1400	84	70 - 130
2-Nitrophenol	1670	1080	65 *	70 - 130
2,4-Dimethylphenol	1670	1300	78	70 - 130
bis(2-chloroethoxy)methane	1670	1380	83	70 - 130
2,4-Dichlorophenol	1670	1420	85	70 - 130
1,2,4-Trichlorobenzene	1670	1360	82	70 - 130
Naphthalene	1670	1330	80	70 - 130
4-Chloroaniline	1670	865	52 *	70 - 130
Hexachlorobutadiene	1670	1370	82	70 - 130
4-Chloro-3-methylphenol	1670	1410	85	70 - 130
2-Methylnaphthylene	1670	1360	82	70 - 130
Hexachlorocyclopentadiene	1670	1280	77	20 - 160



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1601783**  
 Project: **255 East 138th Street**

Calibration:	16I2803	Instrument:	GC/MS E
		Calibration Date:	9/14/2016 3:40:46PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014123	7.169767		
4-Chloroaniline	0.4402657	5.784603		
Hexachlorobutadiene	0.1464964	3.84209	CCC (20)	
Caprolactam	0.1709709	6.445732		
4-Chloro-3-methylphenol	0.2768656	2.695514	CCC (20)	
2-Methylnaphthylene	0.6891113	5.691868		
1,2,4,5-Tetrachlorobenzene	0.5149505	9.15819		
Hexachlorocyclopentadiene	0.2714654	5.752113	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3723882	3.624578	CCC (20)	
2,4,5-Trichlorophenol	0.3753609	3.607611		
2-Chloronaphthalene	1.119885	10.07415		
1,1-Biphenyl	1.384107	13.65235		
2-Nitroaniline	0.315577	3.81697		
Dimethylphthalate	1.253171	7.026729		
Acenaphthylene	1.848672	8.44986		
3-Nitroaniline	0.3983313	2.923779		
Acenaphthene	1.122913	5.841823	CCC (20)	
2,4-Dinitrophenol	0.1466101	43.82366	SPCC (0.05)	
4-Nitrophenol	9.450922E-02	12.00512	SPCC (0.05)	
Dibenzofuran	1.533681	7.637788		
2,6-Dinitrotoluene	0.3239296	3.154134		
2,4-Dinitrotoluene	0.3991266	4.741015		
2,3,4,6-Tetrachlorophenol	0.2828779	3.529397		
Diethyl phthalate	1.215381	4.575979		
4-Chlorophenyl-phenylether	0.526632	7.91456		

## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.



**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Former G & C Services  
255 East 138th Street  
Bronx, NY  
NYSDEC BCP # C203057**

**SDG: 1602114**  
3 Soil Samples

Prepared for:

**Brinkerhoff Environmental Services, Inc.  
1805 Atlantic Avenue  
Manasquan, NJ 08736**

**December 2016**



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### **Summaries of Validated Results**

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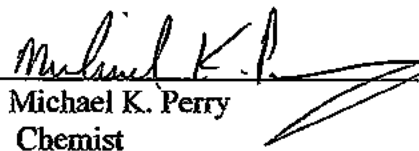
**REVIEWER'S NARRATIVE**  
**SDG 1602114**

The data associated with this Sample Delivery Group (SDG) 1602114, analyzed by Accredited Analytical Resources, LLC, Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: \_\_\_\_\_

  
Michael K. Perry  
Chemist

Date: \_\_\_\_\_

12/17/16

## 1.0 SUMMARY

**SITE:** 255 East 138<sup>th</sup> Street.  
Bronx, NY

**SAMPLING DATE:** November 7, 2016

**SAMPLE TYPE:** 3 soil samples

**LABORATORY:** Accredited Analytical Resources, LLC.  
Carteret, NJ

**SDG No.:** 1602114

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for three soil samples collected on November 7, 2016. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602114. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1**

**DATA VALIDATION GUIDANCE DOCUMENTS**

Analyte Type	Validation Guidance
VOCs	<p>USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.</p> <p>USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.</p>
SVOCs	<p>USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.</p>
Pesticides/PCBs	<p>USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.</p>
Metals	<p>USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.</p>
Gen Chemistry	<p>NYSDEC, 2005, Analytical Services Protocols (ASP)</p>
VOCs (Ambient air)	<p>USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.</p>

**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate



The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG 1602114, three samples were analyzed and results were reported for 573 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-32 DUP-1 RE	Acetone (3.67) Methylene Chloride (1.67)	J detects	Method Blank contamination	J detects up to 10X MB level
EP-32	2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane Ethylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane m.p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene	UJ non-detects J detects	IS #3 and #4 area < 50 % QC limit	Sample data is estimated

## SDG 1602114

	1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene			
EP-33 DUP-1	Acetone Methylene Chloride DBCP Dichlorodifluoromethane	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-33 DUP-1	Acetone Methylene Chloride DBCP Dichlorodifluoromethane Hexachlorobutadiene	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated
EP-32 DUP-1 RE	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated
EP-33 DUP-1 DUP-1 RE	All analytes	UJ non-detects J detects	Gross variation between sample, sample reanalysis and field duplicate	Samples are estimated

**Table 6-2 SVOCs**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
All samples	4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
All samples	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect

**Table 6-3 Pesticides**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

**Table 6-4 PCBs**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

**Table 6-5 TAL Metals**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
All samples	Lead Potassium Sodium	J detects	Matrix Spike > 125 %	Data is estimated
All samples	Arsenic Cadmium	J detect	Serial dilution > 10 %	Data is estimated

**Table 6-6 Wet Chemistry**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

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*Validated  
Analytical  
Results*





# Accredited Analytical Resources, LLC.

## ANALYTICAL REPORT

for

### BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

<u>Client Sample ID:</u>	<u>Lab Sample ID:</u>
EP-32	1602114-01
EP-33	1602114-02
EP-33	1602114-02RE1
DUP-1	1602114-03
DUP-1	1602114-03RE1

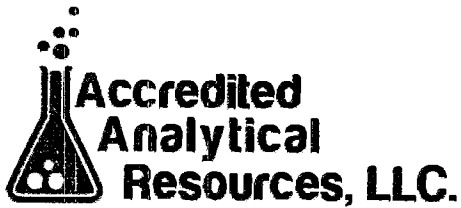
This data has been reviewed and accepted by:

Daniel Miguel  
Technical Director

11/30/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



## Case Narrative

### Conformance / Non-Conformance Summary AAR Work Order: 1602114

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 11/07/2016 14:15.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated for AAR Sample #1602114-03 due to matrix interference.

In the Volatile Organic analyses, B6K1113-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6K0901 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6K0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6K0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1602114-01 due to the high moisture content of the sample (% Solid: 27%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel  
Technical Director

**Accredited Analytical Resources, LLC**20 PERSHING AVE, CARTERET, NJ 07008  
Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

**CHAIN OF CUSTODY FORM**

CLIENT NAME:	Brinkerhoff Environmental		
ADDRESS:	1805 ATLANTIC AVE		
CITY:	MANASQUAN		
STATE:	NJ		
ZIP:	08736		

STATE AGENCY (CIRCLE ONE)	NJ	<b>NY</b>	PA
PROJECT NAME:	255 East 139th Street		
CONTACT:	Sean Harrison		
OFFICE PHONE #:	732-223-2225		
OFFICE FAX #:	732-223-3044		
INITIAL RESULTS TO:	Sean Harrison		
EMAIL FOR INVOICE:	SHARRISON@brinkerhoff.com		

COLLECTION INFORMATION				ANALYSIS											AAR SAMPLE #			
CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (G)	PRES. CODE → CONT. CODE →											
EP-32	11/7/16/1220	S	5.2	4	G		TAL / TCL Hex Chrom Tri Chrom											-01
EP-33	11/7/16/1215	S	5.2	4	G													-02
DUP-1	11/7/16/1220	S		4	G													-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER						
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE			PRESERVATIVES CODES: 1 = HCL 2 = HNO <sub>3</sub> 3 = H <sub>2</sub> SO <sub>4</sub> 4 = NaOH 6 = OTHER			
TURNAROUND TIME (CIRCLE ONE)	STANDARD	<b>5 DAY</b>	72 HRS.	48 HRS.	24 HRS.	OTHER
(IF BLANK STANDARD WILL APPLY)						
REPORT TYPE:	RESULTS ONLY	REDUCED	FULL	<input checked="" type="checkbox"/> EDD	EXCEL SPREADSHEET	

COMMENTS:	NYDES Category B Data Deliverables. Hand copy Report due (4) four weeks from today.				
COOLER TEMP:	6°C				

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING:	PRINT: Rachael Barr	SIGN: <i>R. Barr</i>
---	---------------------	----------------------

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr Signature: <i>R. Barr</i> Agent of: Brinkerhoff Date Received: 11/7/16 Time: 1416	Print Name: K. Muniuz Signature: <i>K. Muniuz</i> Agent of: AAR Date Received: / / Time: / /	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /
Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: / /



### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

### Data Qualifiers

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-32**  
 Lab Sample ID: **1602114-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	33.2	55.3	U
107-13-1	Acrylonitrile	ND	11.1	55.3	U
67-64-1	Acetone	129	5.53	11.1	B
75-71-8	Dichlorodifluoromethane	ND	5.53	11.1	U
74-87-3	Chloromethane	ND	5.53	11.1	U
75-01-4	Vinyl chloride	ND	5.53	11.1	U
74-83-9	Bromomethane	ND	5.53	11.1	U
75-00-3	Chloroethane	ND	5.53	11.1	U
75-69-4	Trichlorofluoromethane	ND	5.53	11.1	U
75-35-4	1,1-Dichloroethene	ND	5.53	11.1	U
75-15-0	Carbon disulfide	ND	5.53	11.1	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	5.53	11.1	U
156-60-5	trans-1,2-Dichloroethene	ND	5.53	11.1	U
75-34-3	1,1-Dichloroethane	ND	5.53	11.1	U
108-05-4	Vinyl acetate	ND	5.53	11.1	U
590-20-7	2,2-Dichloropropane	ND	5.53	11.1	U
78-93-3	2-Butanone	44.4	5.53	11.1	
156-59-4	cis-1,2-Dichloroethene	ND	5.53	11.1	U
67-66-3	Chloroform	ND	5.53	11.1	U
74-97-5	Bromochloromethane	ND	5.53	11.1	U
71-55-6	1,1,1-Trichloroethane	ND	5.53	11.1	U
563-58-6	1,1-Dichloropropene	ND	5.53	11.1	U
56-23-5	Carbon Tetrachloride	ND	5.53	11.1	U
107-06-2	1,2-Dichloroethane	ND	5.53	11.1	U
71-43-2	Benzene	ND	5.53	11.1	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-32**  
 Lab Sample ID: **1602114-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	5.53	11.1	U
78-87-5	1,2-Dichloropropane	ND	5.53	11.1	U
75-27-4	Bromodichloromethane	ND	5.53	11.1	U
74-95-3	Dibromomethane	ND	5.53	11.1	U
110-75-8	2-Chloroethyl vinyl ether	ND	5.53	11.1	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.53	11.1	U
108-88-3	Toluene	ND	5.53	11.1	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.53	11.1	U
79-00-5	1,1,2-Trichloroethane	ND	5.53	11.1	U
108-10-1	4-Methyl-2-pentanone	ND	5.53	11.1	U
106-93-4	1,2-Dibromoethane	ND	5.53	11.1	U
591-78-6	2-Hexanone	ND <i>u.s.</i>	5.53	11.1	U
142-28-9	1,3-Dichloropropane	ND	5.53	11.1	U
127-18-4	Tetrachloroethene	ND	5.53	11.1	U
124-48-1	Dibromochloromethane	ND	5.53	11.1	U
100-41-4	Ethylbenzene	ND	5.53	11.1	U
108-90-7	Chlorobenzene	ND	5.53	11.1	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.53	11.1	U
108-38-3/106-42	m,p-Xylenes	ND	11.1	22.1	U
95-47-6	o-Xylene	ND	11.1	22.1	U
100-42-5	Styrene	ND	5.53	22.1	U
75-25-2	Bromoforn	ND	5.53	11.1	U
98-82-8	Isopropylbenzene	ND	5.53	11.1	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.53	11.1	U
96-18-4	1,2,3-Trichloropropane	ND	5.53	11.1	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-32**  
 Lab Sample ID: **1602114-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND <i>UJ</i>	5.53	11.1	U
108-86-1	Bromobenzene	ND	5.53	11.1	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.53	11.1	U
95-49-8	2-Chlorotoluene	ND	5.53	11.1	U
106-43-4	4-Chlorotoluene	ND	5.53	11.1	U
98-06-6	tert-Butylbenzene	ND	5.53	11.1	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.53	11.1	U
135-98-8	sec-Butylbenzene	ND	5.53	11.1	U
99-87-6	p-Isopropyltoluene	ND	5.53	11.1	U
541-73-1	1,3-Dichlorobenzene	ND	5.53	11.1	U
106-46-7	1,4-Dichlorobenzene	ND	5.53	11.1	U
104-51-8	n-Butyl Benzene	ND	5.53	11.1	U
95-50-1	1,2-Dichlorobenzene	ND	5.53	11.1	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.53	11.1	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.53	11.1	U
87-68-3	Hexachlorobutadiene	ND	5.53	11.1	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.53	11.1	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	114%	70-130
Toluene-d8	94%	70-130
Bromofluorobenzene	71%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

*map  
12/10/16*



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND <i>uJ</i>	5.88	9.80	U
107-13-1	Acrylonitrile	ND ↓	1.96	9.80	U
67-64-1	Acetone	21.4 <i>J</i>	0.980	1.96	
75-71-8	Dichlorodifluoromethane	ND <i>uJ</i>	0.980	1.96	U
74-87-3	Chloromethane	ND	0.980	1.96	U
75-01-4	Vinyl chloride	ND	0.980	1.96	U
74-83-9	Bromomethane	ND	0.980	1.96	U
75-00-3	Chloroethane	ND	0.980	1.96	U
75-69-4	Trichlorofluoromethane	ND	0.980	1.96	U
75-35-4	1,1-Dichloroethene	ND	0.980	1.96	U
75-15-0	Carbon disulfide	ND ↓	0.980	1.96	U
75-09-2	Methylene Chloride	ND <i>uJ</i>	0.980	1.96	U
156-60-5	trans-1,2-Dichloroethene	ND	0.980	1.96	U
75-34-3	1,1-Dichloroethane	ND	0.980	1.96	U
108-05-4	Vinyl acetate	ND	0.980	1.96	U
590-20-7	2,2-Dichloropropane	ND	0.980	1.96	U
78-93-3	2-Butanone	ND	0.980	1.96	U
156-59-4	cis-1,2-Dichloroethene	ND	0.980	1.96	U
67-66-3	Chloroform	ND	0.980	1.96	U
74-97-5	Bromochloromethane	ND	0.980	1.96	U
71-55-6	1,1,1-Trichloroethane	ND	0.980	1.96	U
563-58-6	1,1-Dichloropropene	ND	0.980	1.96	U
56-23-5	Carbon Tetrachloride	ND	0.980	1.96	U
107-06-2	1,2-Dichloroethane	ND	0.980	1.96	U
71-43-2	Benzene	ND	0.980	1.96	U





**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-33**  
 Lab Sample ID: **1602114-02**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND u.s	0.980	1.96	U
78-87-5	1,2-Dichloropropane	ND	0.980	1.96	U
75-27-4	Bromodichloromethane	ND	0.980	1.96	U
74-95-3	Dibromomethane	ND	0.980	1.96	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.980	1.96	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.980	1.96	U
108-88-3	Toluene	ND	0.980	1.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.980	1.96	U
79-00-5	1,1,2-Trichloroethane	ND	0.980	1.96	U
108-10-1	4-Methyl-2-pentanone	ND	0.980	1.96	U
106-93-4	1,2-Dibromoethane	ND	0.980	1.96	U
591-78-6	2-Hexanone	ND	0.980	1.96	U
142-28-9	1,3-Dichloropropane	ND	0.980	1.96	U
127-18-4	Tetrachloroethene	ND	0.980	1.96	U
124-48-1	Dibromochloromethane	ND	0.980	1.96	U
100-41-4	Ethylbenzene	13.0 J	0.980	1.96	
108-90-7	Chlorobenzene	ND u.s	0.980	1.96	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.980	1.96	U
108-38-3/106-42	m,p-Xylenes	ND	1.96	3.92	U
95-47-6	o-Xylene	ND	1.96	3.92	U
100-42-5	Styrene	ND	0.980	3.92	U
75-25-2	Bromoform	ND	0.980	1.96	U
98-82-8	Isopropylbenzene	37.3 J	0.980	1.96	
79-34-5	1,1,2,2-Tetrachloroethane	ND u.s	0.980	1.96	U
96-18-4	1,2,3-Trichloropropane	ND	0.980	1.96	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	103 J	0.980	1.96	
108-86-1	Bromobenzene	ND UJ	0.980	1.96	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.980	1.96	U
95-49-8	2-Chlorotoluene	ND	0.980	1.96	U
106-43-4	4-Chlorotoluene	ND	0.980	1.96	U
98-06-6	tert-Butylbenzene	ND	0.980	1.96	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.980	1.96	U
135-98-8	sec-Butylbenzene	ND	0.980	1.96	U
99-87-6	p-Isopropyltoluene	ND	0.980	1.96	U
541-73-1	1,3-Dichlorobenzene	ND	0.980	1.96	U
106-46-7	1,4-Dichlorobenzene	ND	0.980	1.96	U
104-51-8	n-Butyl Benzene	12.6 J	0.980	1.96	
95-50-1	1,2-Dichlorobenzene	ND UJ	0.980	1.96	U
96-12-8	1,2-Dibromo-3-chloropropane	ND UJ	0.980	1.96	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	0.980	1.96	U
87-68-3	Hexachlorobutadiene	ND UJ	0.980	1.96	U
87-61-6	1,2,3-Trichlorobenzene	ND UJ	0.980	1.96	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	93%	70-130
Bromofluorobenzene	94%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

*map 12/17/16*



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-1**  
 Lab Sample ID: **1602114-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acroetin	ND <i>u5</i>	137	229	U
107-13-1	Acrylonitrile	ND	45.8	229	U
67-64-1	Acetone	ND	22.9	45.8	U
75-71-8	Dichlorodifluoromethane	ND	22.9	45.8	U
74-87-3	Chloromethane	ND	22.9	45.8	U
75-01-4	Vinyl chloride	ND	22.9	45.8	U
74-83-9	Bromomethane	ND	22.9	45.8	U
75-00-3	Chloroethane	ND	22.9	45.8	U
75-69-4	Trichlorofluoromethane	ND	22.9	45.8	U
75-35-4	1,1-Dichloroethene	ND	22.9	45.8	U
75-15-0	Carbon disulfide	ND	22.9	45.8	U
75-09-2	Methylene Chloride	ND	22.9	45.8	U
156-60-5	trans-1,2-Dichloroethene	ND	22.9	45.8	U
75-34-3	1,1-Dichloroethane	ND	22.9	45.8	U
108-05-4	Vinyl acetate	ND	22.9	45.8	U
590-20-7	2,2-Dichloropropane	ND	22.9	45.8	U
78-93-3	2-Butanone	ND	22.9	45.8	U
156-59-4	cis-1,2-Dichloroethene	ND	22.9	45.8	U
67-66-3	Chloroform	ND	22.9	45.8	U
74-97-5	Bromochloromethane	ND	22.9	45.8	U
71-55-6	1,1,1-Trichloroethane	ND	22.9	45.8	U
563-58-6	1,1-Dichloropropene	ND	22.9	45.8	U
56-23-5	Carbon Tetrachloride	ND	22.9	45.8	U
107-06-2	1,2-Dichloroethane	ND	22.9	45.8	U
71-43-2	Benzene	ND	22.9	45.8	U

*MAP 12/17/16*



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-1**  
 Lab Sample ID: **1602114-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND <i>U.S.</i>	22.9	45.8	U
78-87-5	1,2-Dichloropropane	ND	22.9	45.8	U
75-27-4	Bromodichloromethane	ND	22.9	45.8	U
74-95-3	Dibromomethane	ND	22.9	45.8	U
110-75-8	2-Chloroethyl vinyl ether	ND	22.9	45.8	U
10061-01-5	cis-1,3-Dichloropropene	ND	22.9	45.8	U
108-88-3	Toluene	ND	22.9	45.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	22.9	45.8	U
79-00-5	1,1,2-Trichloroethane	ND	22.9	45.8	U
108-10-1	4-Methyl-2-pentanone	ND	22.9	45.8	U
106-93-4	1,2-Dibromoethane	ND	22.9	45.8	U
591-78-6	2-Hexanone	ND	22.9	45.8	U
142-28-9	1,3-Dichloropropane	ND	22.9	45.8	U
127-18-4	Tetrachloroethene	ND	22.9	45.8	U
124-48-1	Dibromochloromethane	ND	22.9	45.8	U
100-41-4	Ethylbenzene	397 <i>J</i>	22.9	45.8	D
108-90-7	Chlorobenzene	ND <i>U.S.</i>	22.9	45.8	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	22.9	45.8	U
108-38-3/106-42	m,p-Xylenes	ND	45.8	91.5	U
95-47-6	o-Xylene	ND	45.8	91.5	U
100-42-5	Styrene	ND	22.9	91.5	U
75-25-2	Bromoform	ND	22.9	45.8	U
98-82-8	Isopropylbenzene	1920 <i>J</i>	22.9	45.8	D
79-34-5	1,1,2,2-Tetrachloroethane	ND <i>U.S.</i>	22.9	45.8	U
96-18-4	1,2,3-Trichloropropane	ND	22.9	45.8	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:20	Prep Date: 11/08/16 20:03	Matrix: Soil
Percent Solids: 87.40	Prep Method: EPA 5035A	File ID: A10232.D
Prep Batch: B6K0818	Sequence: S6K0809	Analyzed: 11/08/16 20:03
Dilution: 20		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	7150 J	22.9	45.8	D, E
108-86-1	Bromobenzene	ND uJ	22.9	45.8	U
108-67-8	1,3,5-Trimethylbenzene	117 J	22.9	45.8	D
95-49-8	2-Chlorotoluene	ND uJ	22.9	45.8	U
106-43-4	4-Chlorotoluene	ND ↓	22.9	45.8	U
98-06-6	tert-Butylbenzene	ND ↓	22.9	45.8	U
95-63-6	1,2,4-Trimethylbenzene	42.3 J	22.9	45.8	J, D
135-98-8	sec-Butylbenzene	1140 J	22.9	45.8	D
99-87-6	p-Isopropyltoluene	234 J	22.9	45.8	D
541-73-1	1,3-Dichlorobenzene	ND uJ	22.9	45.8	U
106-46-7	1,4-Dichlorobenzene	ND ↓	22.9	45.8	U
104-51-8	n-Butyl Benzene	2770 J	22.9	45.8	D
95-50-1	1,2-Dichlorobenzene	ND uJ	22.9	45.8	U
96-12-8	1,2-Dibromo-3-chloropropane	ND ↓	22.9	45.8	U
120-82-1	1,2,4-Trichlorobenzene	ND ↓	22.9	45.8	U
87-68-3	Hexachlorobutadiene	ND ↓	22.9	45.8	U
87-61-6	1,2,3-Trichlorobenzene	ND ↓	22.9	45.8	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	106%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

*meep P 1/17/16*



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03RE1  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND <i>VJ</i>	686	1140	U
107-13-1	Acrylonitrile	ND	229	1140	U
67-64-1	Acetone	ND	114	229	U
75-71-8	Dichlorodifluoromethane	ND	114	229	U
74-87-3	Chloromethane	ND	114	229	U
75-01-4	Vinyl chloride	ND	114	229	U
74-83-9	Bromomethane	ND	114	229	U
75-00-3	Chloroethane	ND	114	229	U
75-69-4	Trichlorofluoromethane	ND	114	229	U
75-35-4	1,1-Dichloroethene	ND	114	229	U
75-15-0	Carbon disulfide	ND	114	229	U
75-09-2	Methylene Chloride	ND	114	229	U
156-60-5	trans-1,2-Dichloroethene	ND	114	229	U
75-34-3	1,1-Dichloroethane	ND	114	229	U
108-05-4	Vinyl acetate	ND	114	229	U
590-20-7	2,2-Dichloropropane	ND	114	229	U
78-93-3	2-Butanone	ND	114	229	U
156-59-4	cis-1,2-Dichloroethene	ND	114	229	U
67-66-3	Chloroform	ND	114	229	U
74-97-5	Bromochloromethane	ND	114	229	U
71-55-6	1,1,1-Trichloroethane	ND	114	229	U
563-58-6	1,1-Dichloropropene	ND	114	229	U
56-23-5	Carbon Tetrachloride	ND	114	229	U
107-06-2	1,2-Dichloroethane	ND	114	229	U
71-43-2	Benzene	ND	114	229	U

*mep 12/17/16*



## ANALYSIS DATA SHEET

### EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03RE1  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND <i>WJ</i>	114	229	U
78-87-5	1,2-Dichloropropane	ND	114	229	U
75-27-4	Bromodichloromethane	ND	114	229	U
74-95-3	Dibromomethane	ND	114	229	U
110-75-8	2-Chloroethyl vinyl ether	ND	114	229	U
10061-01-5	cis-1,3-Dichloropropene	ND	114	229	U
108-88-3	Toluene	ND	114	229	U
10061-02-6	trans-1,3-Dichloropropene	ND	114	229	U
79-00-5	1,1,2-Trichloroethane	ND	114	229	U
108-10-1	4-Methyl-2-pentanone	ND	114	229	U
106-93-4	1,2-Dibromoethane	ND	114	229	U
591-78-6	2-Hexanone	ND	114	229	U
142-28-9	1,3-Dichloropropane	ND	114	229	U
127-18-4	Tetrachloroethene	ND	114	229	U
124-48-1	Dibromochloromethane	ND	114	229	U
100-41-4	Ethylbenzene	ND	114	229	U
108-90-7	Chlorobenzene	ND	114	229	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	114	229	U
108-38-3/106-42	m,p-Xylenes	ND	229	458	U
95-47-6	o-Xylene	ND	229	458	U
100-42-5	Styrene	ND	114	458	U
75-25-2	Bromoform	ND	114	229	U
98-82-8	Isopropylbenzene	ND	114	229	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	114	229	U
96-18-4	1,2,3-Trichloropropane	ND	114	229	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03RE1  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	6640 <i>JK</i>	114	229	D
108-86-1	Bromobenzene	ND <i>JK</i>	114	229	U
108-67-8	1,3,5-Trimethylbenzene	ND	114	229	U
95-49-8	2-Chlorotoluene	ND	114	229	U
106-43-4	4-Chlorotoluene	ND	114	229	U
98-06-6	tert-Butylbenzene	ND	114	229	U
95-63-6	1,2,4-Trimethylbenzene	ND	114	229	U
135-98-8	sec-Butylbenzene	ND	114	229	U
99-87-6	p-Isopropyltoluene	ND	114	229	U
541-73-1	1,3-Dichlorobenzene	ND	114	229	U
106-46-7	1,4-Dichlorobenzene	ND	114	229	U
104-51-8	n-Butyl Benzene	ND	114	229	U
95-50-1	1,2-Dichlorobenzene	ND	114	229	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	114	229	U
120-82-1	1,2,4-Trichlorobenzene	ND	114	229	U
87-68-3	Hexachlorobutadiene	ND	114	229	U
87-61-6	1,2,3-Trichlorobenzene	ND	114	229	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	101%	70-130
Bromofluorobenzene	102%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

*map 12/17/16*





## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	123	619	U
108-95-2	Phenol	ND	123	619	U
111-44-4	bis(2-chloroethyl)ether	ND	123	619	U
95-57-8	2-Chlorophenol	ND	123	619	U
541-73-1	1,3-Dichlorobenzene	ND	123	619	U
106-46-7	1,4-Dichlorobenzene	ND	123	619	U
100-51-6	Benzyl alcohol	ND	123	619	U
95-50-1	1,2-Dichlorobenzene	ND	123	619	U
95-48-7	2-Methylphenol	ND	123	619	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	123	619	U
106-44-5	3 & 4-Methylphenol	ND	123	619	U
621-64-7	N-Nitroso-di-n-propylamine	ND	123	619	U
67-72-1	Hexachloroethane	ND	123	619	U
98-95-3	Nitrobenzene	ND	123	619	U
78-59-1	Isophorone	ND	123	619	U
88-75-5	2-Nitrophenol	ND	123	619	U
105-67-9	2,4-Dimethylphenol	ND	123	619	U
65-85-0	Benzoic acid	ND	307	1230	U
111-91-1	bis(2-chloroethoxy)methane	ND	123	619	U
120-83-2	2,4-Dichlorophenol	ND	123	619	U
120-82-1	1,2,4-Trichlorobenzene	ND	123	619	U
91-20-3	Naphthalene	ND	123	619	U
106-47-8	4-Chloroaniline	ND <i>LS</i>	123	619	U
87-68-3	Hexachlorobutadiene	ND	123	619	U
59-50-7	4-Chloro-3-methylphenol	ND	123	619	U

*MSD 12/17/16*



## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	123	619	U
77-47-4	Hexachlorocyclopentadiene	ND	123	619	U
88-06-2	2,4,6-Trichlorophenol	ND	123	619	U
95-95-4	2,4,5-Trichlorophenol	ND	123	619	U
91-58-7	2-Chloronaphthalene	ND	123	619	U
88-74-4	2-Nitroaniline	ND	123	619	U
131-11-3	Dimethylphthalate	ND	123	619	U
208-96-8	Acenaphthylene	ND	123	619	U
99-09-2	3-Nitroaniline	ND	123	619	U
83-32-9	Acenaphthene	ND	123	619	U
51-28-5	2,4-Dinitrophenol	ND	123	1230	U
100-02-7	4-Nitrophenol	ND	123	619	U
132-64-9	Dibenzofuran	ND	123	619	U
606-20-2	2,6-Dinitrotoluene	ND	123	619	U
121-14-2	2,4-Dinitrotoluene	ND	123	619	U
84-66-2	Diethyl phthalate	ND	123	619	U
7005-72-3	4-Chlorophenyl-phenylether	ND	123	619	U
86-73-7	Fluorene	ND	123	619	U
100-01-6	4-Nitroaniline	ND	123	619	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	123	619	U
86-30-6	N-Nitrosodiphenylamine	ND	123	619	U
101-55-3	4-Bromophenyl-phenylether	ND	123	619	U
118-74-1	Hexachlorobenzene	ND	123	619	U
87-86-5	Pentachlorophenol	ND	123	619	U
85-01-8	Phenanthrene	815	123	619	



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-32**  
 Lab Sample ID: **1602114-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	141	123	619	J
84-74-2	Di-n-butyl phthalate	ND	123	619	U
206-44-0	Fluoranthene	959	123	619	
129-00-0	Pyrene	1090	123	619	
85-68-7	Butylbenzylphthalate	ND	123	619	U
91-94-1	3,3'-Dichlorobenzidine	ND	307	619	U
56-55-3	Benzo[a]anthracene	431	123	619	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	123	619	U
218-01-9	Chrysene	482	123	619	J
117-84-0	Di-n-octyl phthalate	ND	123	619	U
205-99-2	Benzo[b]fluoranthene	520	123	619	J
207-08-9	Benzo[k]fluoranthene	174	123	619	J
50-32-8	Benzo[a]pyrene	420	123	619	J
193-39-5	Indeno(1,2,3-cd)pyrene	261	123	619	J
53-70-3	Dibenzo(a,h)anthracene	ND	123	619	U
191-24-2	Benzo[ghi]perylene	294	123	619	J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	53%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	83%	30-130
2,4,6-Tribromophenol	80%	30-130
Terphenyl-d14	99%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-33**  
 Lab Sample ID: **1602114-02**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.5	193	U
108-95-2	Phenol	ND	38.5	193	U
111-44-4	bis(2-chloroethyl)ether	ND	38.5	193	U
95-57-8	2-Chlorophenol	ND	38.5	193	U
541-73-1	1,3-Dichlorobenzene	ND	38.5	193	U
106-46-7	1,4-Dichlorobenzene	ND	38.5	193	U
100-51-6	Benzyl alcohol	ND	38.5	193	U
95-50-1	1,2-Dichlorobenzene	ND	38.5	193	U
95-48-7	2-Methylphenol	ND	38.5	193	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.5	193	U
106-44-5	3 & 4-Methylphenol	ND	38.5	193	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.5	193	U
67-72-1	Hexachloroethane	ND	38.5	193	U
98-95-3	Nitrobenzene	ND	38.5	193	U
78-59-1	Isophorone	ND	38.5	193	U
88-75-5	2-Nitrophenol	ND	38.5	193	U
105-67-9	2,4-Dimethylphenol	ND	38.5	193	U
65-85-0	Benzoic acid	ND	96.0	385	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.5	193	U
120-83-2	2,4-Dichlorophenol	ND	38.5	193	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.5	193	U
91-20-3	Naphthalene	10300	38.5	193	E
106-47-8	4-Chloroaniline	ND <i>u.s</i>	38.5	193	U
87-68-3	Hexachlorobutadiene	ND	38.5	193	U
59-50-7	4-Chloro-3-methylphenol	ND	38.5	193	U



## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S8K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	10200	38.5	193	E
77-47-4	Hexachlorocyclopentadiene	ND	38.5	193	U
88-06-2	2,4,6-Trichlorophenol	ND	38.5	193	U
95-95-4	2,4,5-Trichlorophenol	ND	38.5	193	U
91-58-7	2-Chloronaphthalene	ND	38.5	193	U
88-74-4	2-Nitroaniline	ND	38.5	193	U
131-11-3	Dimethylphthalate	ND	38.5	193	U
208-96-8	Acenaphthylene	ND	38.5	193	U
99-09-2	3-Nitroaniline	ND	38.5	193	U
83-32-9	Acenaphthene	42.7	38.5	193	J
51-28-5	2,4-Dinitrophenol	ND	38.5	385	U
100-02-7	4-Nitrophenol	ND	38.5	193	U
132-64-9	Dibenzofuran	ND	38.5	193	U
606-20-2	2,6-Dinitrotoluene	ND	38.5	193	U
121-14-2	2,4-Dinitrotoluene	ND	38.5	193	U
84-66-2	Diethyl phthalate	ND	38.5	193	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.5	193	U
86-73-7	Fluorene	113	38.5	193	J
100-01-6	4-Nitroaniline	ND	38.5	193	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.5	193	U
86-30-6	N-Nitrosodiphenylamine	ND	38.5	193	U
101-55-3	4-Bromophenyl-phenylether	ND	38.5	193	U
118-74-1	Hexachlorobenzene	ND	38.5	193	U
87-86-5	Pentachlorophenol	ND	38.5	193	U
85-01-8	Phenanthrene	215	38.5	193	



## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	53.5	38.5	193	J
84-74-2	Di-n-butyl phthalate	ND	38.5	193	U
206-44-0	Fluoranthene	114	38.5	193	J
129-00-0	Pyrene	116	38.5	193	J
85-68-7	Butylbenzylphthalate	ND	38.5	193	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.0	193	U
56-55-3	Benzo[a]anthracene	50.6	38.5	193	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.5	193	U
218-01-9	Chrysene	48.4	38.5	193	J
117-84-0	Di-n-octyl phthalate	ND	38.5	193	U
205-99-2	Benzo[b]fluoranthene	ND	38.5	193	U
207-08-9	Benzo[k]fluoranthene	ND	38.5	193	U
50-32-8	Benzo[a]pyrene	ND	38.5	193	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.5	193	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.5	193	U
191-24-2	Benzo[ghi]perylene	ND	38.5	193	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	58%	30-130
Phenol-d5	65%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	91%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-33**  
 Lab Sample ID: **1602114-02RE1**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	385	1930	U
108-95-2	Phenol	ND	385	1930	U
111-44-4	bis(2-chloroethyl)ether	ND	385	1930	U
95-57-8	2-Chlorophenol	ND	385	1930	U
541-73-1	1,3-Dichlorobenzene	ND	385	1930	U
106-46-7	1,4-Dichlorobenzene	ND	385	1930	U
100-51-6	Benzyl alcohol	ND	385	1930	U
95-50-1	1,2-Dichlorobenzene	ND	385	1930	U
95-48-7	2-Methylphenol	ND	385	1930	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	385	1930	U
106-44-5	3 & 4-Methylphenol	ND	385	1930	U
621-64-7	N-Nitroso-di-n-propylamine	ND	385	1930	U
67-72-1	Hexachloroethane	ND	385	1930	U
98-95-3	Nitrobenzene	ND	385	1930	U
78-59-1	Isophorone	ND	385	1930	U
88-75-5	2-Nitrophenol	ND	385	1930	U
105-67-9	2,4-Dimethylphenol	ND	385	1930	U
65-85-0	Benzoic acid	ND	960	3850	U
111-91-1	bis(2-chloroethoxy)methane	ND	385	1930	U
120-83-2	2,4-Dichlorophenol	ND	385	1930	U
120-82-1	1,2,4-Trichlorobenzene	ND	385	1930	U
91-20-3	Naphthalene	14200	385	1930	D
106-47-8	4-Chloroaniline	ND <i>u.s.</i>	385	1930	U
87-68-3	Hexachlorobutadiene	ND	385	1930	U
59-50-7	4-Chloro-3-methylphenol	ND	385	1930	U



**ANALYSIS DATA SHEET**  
EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02RE1  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	11300	385	1930	D
77-47-4	Hexachlorocyclopentadiene	ND	385	1930	U
88-06-2	2,4,6-Trichlorophenol	ND	385	1930	U
95-95-4	2,4,5-Trichlorophenol	ND	385	1930	U
91-58-7	2-Chloronaphthalene	ND	385	1930	U
88-74-4	2-Nitroaniline	ND	385	1930	U
131-11-3	Dimethylphthalate	ND	385	1930	U
208-96-8	Acenaphthylene	ND	385	1930	U
99-09-2	3-Nitroaniline	ND	385	1930	U
83-32-9	Acenaphthene	ND	385	1930	U
51-28-5	2,4-Dinitrophenol	ND	385	3850	U
100-02-7	4-Nitrophenol	ND	385	1930	U
132-64-9	Dibenzofuran	ND	385	1930	U
606-20-2	2,6-Dinitrotoluene	ND	385	1930	U
121-14-2	2,4-Dinitrotoluene	ND	385	1930	U
84-66-2	Diethyl phthalate	ND	385	1930	U
7005-72-3	4-Chlorophenyl-phenylether	ND	385	1930	U
86-73-7	Fluorene	ND	385	1930	U
100-01-6	4-Nitroaniline	ND	385	1930	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	385	1930	U
86-30-6	N-Nitrosodiphenylamine	ND	385	1930	U
101-55-3	4-Bromophenyl-phenylether	ND	385	1930	U
118-74-1	Hexachlorobenzene	ND	385	1930	U
87-86-5	Pentachlorophenol	ND	385	1930	U
85-01-8	Phenanthrene	ND	385	1930	U





## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02RE1  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	385	1930	U
84-74-2	Di-n-butyl phthalate	ND	385	1930	U
206-44-0	Fluoranthene	ND	385	1930	U
129-00-0	Pyrene	ND	385	1930	U
85-68-7	Butylbenzylphthalate	ND	385	1930	U
91-94-1	3,3'-Dichlorobenzidine	ND	960	1930	U
56-55-3	Benzo[a]anthracene	ND	385	1930	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	385	1930	U
218-01-9	Chrysene	ND	385	1930	U
117-84-0	Di-n-octyl phthalate	ND	385	1930	U
205-99-2	Benzo[b]fluoranthene	ND	385	1930	U
207-08-9	Benzo[k]fluoranthene	ND	385	1930	U
50-32-8	Benzo[a]pyrene	ND	385	1930	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	385	1930	U
53-70-3	Dibenzo(a,h)anthracene	ND	385	1930	U
191-24-2	Benzo[ghi]perylene	ND	385	1930	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	56%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	81%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	95%	30-130



**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-1**  
 Lab Sample ID: **1602114-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.1	191	U
108-95-2	Phenol	ND	38.1	191	U
111-44-4	bis(2-chloroethyl)ether	ND	38.1	191	U
95-57-8	2-Chlorophenol	ND	38.1	191	U
541-73-1	1,3-Dichlorobenzene	ND	38.1	191	U
106-46-7	1,4-Dichlorobenzene	ND	38.1	191	U
100-51-6	Benzyl alcohol	ND	38.1	191	U
95-50-1	1,2-Dichlorobenzene	ND	38.1	191	U
95-48-7	2-Methylphenol	ND	38.1	191	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.1	191	U
106-44-5	3 & 4-Methylphenol	ND	38.1	191	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.1	191	U
67-72-1	Hexachloroethane	ND	38.1	191	U
98-95-3	Nitrobenzene	ND	38.1	191	U
78-59-1	Isophorone	ND	38.1	191	U
88-75-5	2-Nitrophenol	ND	38.1	191	U
105-67-9	2,4-Dimethylphenol	ND	38.1	191	U
65-85-0	Benzoic acid	ND	95.0	381	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.1	191	U
120-83-2	2,4-Dichlorophenol	ND	38.1	191	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.1	191	U
91-20-3	Naphthalene	1190	38.1	191	
106-47-8	4-Chloroaniline	ND <i>u.s.</i>	38.1	191	U
87-68-3	Hexachlorobutadiene	ND	38.1	191	U
59-50-7	4-Chloro-3-methylphenol	ND	38.1	191	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-1**  
 Lab Sample ID: **1602114-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	1140	38.1	191	
77-47-4	Hexachlorocyclopentadiene	ND	38.1	191	U
88-06-2	2,4,6-Trichlorophenol	ND	38.1	191	U
95-95-4	2,4,5-Trichlorophenol	ND	38.1	191	U
91-58-7	2-Chloronaphthalene	ND	38.1	191	U
88-74-4	2-Nitroaniline	ND	38.1	191	U
131-11-3	Dimethylphthalate	ND	38.1	191	U
208-96-8	Acenaphthylene	ND	38.1	191	U
99-09-2	3-Nitroaniline	ND	38.1	191	U
83-32-9	Acenaphthene	ND	38.1	191	U
51-28-5	2,4-Dinitrophenol	ND	38.1	381	U
100-02-7	4-Nitrophenol	ND	38.1	191	U
132-64-9	Dibenzofuran	ND	38.1	191	U
606-20-2	2,6-Dinitrotoluene	ND	38.1	191	U
121-14-2	2,4-Dinitrotoluene	ND	38.1	191	U
84-66-2	Diethyl phthalate	ND	38.1	191	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.1	191	U
86-73-7	Fluorene	ND	38.1	191	U
100-01-6	4-Nitroaniline	ND	38.1	191	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.1	191	U
86-30-6	N-Nitrosodiphenylamine	ND	38.1	191	U
101-55-3	4-Bromophenyl-phenylether	ND	38.1	191	U
118-74-1	Hexachlorobenzene	ND	38.1	191	U
87-86-5	Pentachlorophenol	ND	38.1	191	U
85-01-8	Phenanthrene	ND	38.1	191	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-1**  
 Lab Sample ID: **1602114-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.1	191	U
84-74-2	Di-n-butyl phthalate	ND	38.1	191	U
206-44-0	Fluoranthene	ND	38.1	191	U
129-00-0	Pyrene	ND	38.1	191	U
85-68-7	Butylbenzylphthalate	ND	38.1	191	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.0	191	U
56-55-3	Benzo[a]anthracene	ND	38.1	191	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.1	191	U
218-01-9	Chrysene	ND	38.1	191	U
117-84-0	Di-n-octyl phthalate	ND	38.1	191	U
205-99-2	Benzo[b]fluoranthene	ND	38.1	191	U
207-08-9	Benzo[k]fluoranthene	ND	38.1	191	U
50-32-8	Benzo[a]pyrene	ND	38.1	191	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.1	191	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.1	191	U
191-24-2	Benzo[ghi]perylene	ND	38.1	191	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	59%	30-130
Phenol-d5	62%	30-130
Nitrobenzene-d5	76%	30-130
2-Fluorobiphenyl	78%	30-130
2,4,6-Tribromophenol	77%	30-130
Terphenyl-d14	94%	30-130



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	2.44	2.44	U
319-85-7	beta-BHC	ND	2.44	2.44	U
319-86-8	delta-BHC	ND	2.44	2.44	U
58-89-9	gamma-BHC [Lindane]	ND	2.44	2.44	U
76-44-8	Heptachlor	ND	2.44	2.44	U
309-00-2	Aldrin	ND	2.44	2.44	U
1024-57-3	Heptachlor Epoxide	ND	2.44	2.44	U
959-98-8	Endosulfan I	ND	2.44	2.44	U
60-57-1	Dieldrin	ND	4.93	4.93	U
72-55-9	4,4'-DDE	ND	4.93	4.93	U
72-20-8	Endrin	ND	4.93	4.93	U
33213-65-9	Endosulfan II	ND	4.93	4.93	U
72-54-8	4,4'-DDD	ND	4.93	4.93	U
1031-07-8	Endosulfan sulfate	ND	4.93	4.93	U
50-29-3	4,4'-DDT	ND	4.93	4.93	U
72-43-5	Methoxychlor	ND	7.41	24.7	U
53494-70-5	Endrin ketone	ND	4.93	4.93	U
7421-93-4	Endrin aldehyde	ND	4.93	4.93	U
5103-71-9	alpha-Chlordane	ND	2.44	2.44	U
5566-34-7	gamma-Chlordane	ND	2.44	2.44	U
8001-35-2	Toxaphene	ND	123	123	U
12674-11-2	Aroclor-1016	ND	61.5	123	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	61.5	123	U
11141-16-5	Aroclor-1232	ND	61.5	123	U
53469-21-9	Aroclor-1242	ND	61.5	123	U
12672-29-6	Aroclor-1248	ND	61.5	123	U
11097-69-1	Aroclor-1254	ND	61.5	123	U
11096-82-5	Aroclor-1260	ND	61.5	123	U
37324-23-5	Aroclor-1262	ND	61.5	123	U
11100-14-4	Aroclor-1268	ND	61.5	123	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	42.5%	30-150
Tetrachloro-m-xylene [2C]	49.2%	30-150
Decachlorobiphenyl	51.6%	30-150
Decachlorobiphenyl [2C]	66.0%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.763	0.763	U
319-85-7	beta-BHC	ND	0.763	0.763	U
319-86-8	delta-BHC	ND	0.763	0.763	U
58-89-9	gamma-BHC (Lindane)	ND	0.763	0.763	U
76-44-8	Heptachlor	ND	0.763	0.763	U
309-00-2	Aldrin	ND	0.763	0.763	U
1024-57-3	Heptachlor Epoxide	ND	0.763	0.763	U
959-98-8	Endosulfan I	ND	0.763	0.763	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.31	7.70	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.763	0.763	U
5566-34-7	gamma-Chlordane	ND	0.763	0.763	U
8001-35-2	Toxaphene	ND	38.5	38.5	U
12674-11-2	Aroclor-1016	ND	19.2	38.5	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:15	Prep Date: 11/09/16 05:33	Matrix: Soil
Percent Solids: 86.50	Prep Method: EPA 3550B	File ID: G18487.D
Prep Batch: B6K0902	Sequence: S6K1103	Analyzed: 11/11/16 13:46
Dilution: 1		Analyst: JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.2	38.5	U
11141-16-5	Aroclor-1232	ND	19.2	38.5	U
53469-21-9	Aroclor-1242	ND	19.2	38.5	U
12672-29-6	Aroclor-1248	ND	19.2	38.5	U
11097-69-1	Aroclor-1254	ND	19.2	38.5	U
11096-82-5	Aroclor-1260	ND	19.2	38.5	U
37324-23-5	Aroclor-1262	ND	19.2	38.5	U
11100-14-4	Aroclor-1268	ND	19.2	38.5	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	77.2%	30-150
Tetrachloro-m-xylene [2C]	98.8%	30-150
Decachlorobiphenyl	98.7%	30-150
Decachlorobiphenyl [2C]	116%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 26% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.755	0.755	U
319-85-7	beta-BHC	ND	0.755	0.755	U
319-86-8	delta-BHC	ND	0.755	0.755	U
58-89-9	gamma-BHC [Lindane]	ND	0.755	0.755	U
76-44-8	Heptachlor	ND	0.755	0.755	U
309-00-2	Aldrin	ND	0.755	0.755	U
1024-57-3	Heptachlor Epoxide	ND	0.755	0.755	U
959-98-8	Endosulfan I	ND	0.755	0.755	U
60-57-1	Dieldrin	ND	1.52	1.52	U
72-55-9	4,4'-DDE	ND	1.52	1.52	U
72-20-8	Endrin	ND	1.52	1.52	U
33213-65-9	Endosulfan II	ND	1.52	1.52	U
72-54-8	4,4'-DDD	ND	1.52	1.52	U
1031-07-8	Endosulfan sulfate	ND	1.52	1.52	U
50-29-3	4,4'-DDT	ND	1.52	1.52	U
72-43-5	Methoxychlor	ND	2.29	7.62	U
53494-70-5	Endrin ketone	ND	1.52	1.52	U
7421-93-4	Endrin aldehyde	ND	1.52	1.52	U
5103-71-9	alpha-Chlordane	ND	0.755	0.755	U
5566-34-7	gamma-Chlordane	ND	0.755	0.755	U
8001-35-2	Toxaphene	ND	38.1	38.1	U
12674-11-2	Aroclor-1016	ND	19.0	38.1	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3650B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.0	38.1	U
11141-16-5	Aroclor-1232	ND	19.0	38.1	U
53469-21-9	Aroclor-1242	ND	19.0	38.1	U
12672-29-6	Aroclor-1248	ND	19.0	38.1	U
11097-69-1	Aroclor-1254	ND	19.0	38.1	U
11096-82-5	Aroclor-1260	ND	19.0	38.1	U
37324-23-5	Aroclor-1262	ND	19.0	38.1	U
11100-14-4	Aroclor-1268	ND	19.0	38.1	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	87.0%	30-150
Tetrachloro-m-xylene [2C]	105%	30-150
Decachlorobiphenyl	103%	30-150
Decachlorobiphenyl [2C]	115%	30-150

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:30	Matrix: Soil
Percent Solids: 27.00	File ID: 110816A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	13000	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-97-6	Mercury	ND	0.278	0.278	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:13 PRT	EPA 7471
7440-36-0	Antimony	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-38-2	Arsenic	5.44 J	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-39-3	Barium	74.8	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-41-7	Beryllium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-43-9	Cadmium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-70-2	Calcium	8850	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-47-3	Chromium	24.8	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-48-4	Cobalt	ND	16.8	16.8	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-50-8	Copper	25.7	10.1	10.1	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-89-6	Iron	20600	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-92-1	Lead	38.9 J	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-95-4	Magnesium	6320	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-96-5	Manganese	167	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-02-0	Nickel	16.0	13.4	13.4	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-09-7	Potassium	1810 J	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-22-4	Silver	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-23-5	Sodium	3520 J	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-28-0	Thallium	ND	5.04	10.1	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-52-2	Vanadium	37.5	16.8	16.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-66-6	Zinc	76.3	20.2	20.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:15	Matrix: Soil
Percent Solids: 86.50	File ID: 110816A-021

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7210	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0867	0.0867	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:15 PRT	EPA 7471
7440-36-0	Antimony	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-38-2	Arsenic	1.08 J	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-39-3	Barium	41.7	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-70-2	Calcium	8550	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-47-3	Chromium	16.1	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-48-4	Cobalt	7.27	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-50-8	Copper	18.2	2.73	2.73	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-89-6	Iron	15800	569	569	25	D	11/07/16 15:34	EPA 3050B	11/08/16 13:57 LIT	EPA 6010
7439-92-1	Lead	7.79 J	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-95-4	Magnesium	7720	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-96-5	Manganese	415	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-02-0	Nickel	12.9	3.64	3.64	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-09-7	Potassium	1690 J	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-22-4	Silver	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-23-5	Sodium	185 J	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.73	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-62-2	Vanadium	27.5	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-66-6	Zinc	43.0	5.47	5.47	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:20	Matrix: Soil
Percent Solids: 87.40	File ID: 110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	6580	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0858	0.0858	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:17 PRT	EPA 7471
7440-36-0	Antimony	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-38-2	Arsenic	0.958 J	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-39-3	Barium	38.2	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-70-2	Calcium	8710	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-47-3	Chromium	14.3	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-48-4	Cobalt	7.10	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-50-8	Copper	17.1	2.74	2.74	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-89-6	Iron	15600	571	571	25	D	11/07/16 15:34	EPA 3050B	11/08/16 14:02 LIT	EPA 6010
7439-92-1	Lead	8.52 J	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-95-4	Magnesium	7580	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-96-5	Manganese	556	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-02-0	Nickel	11.1	3.65	3.65	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-09-7	Potassium	1530 J	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-22-4	Silver	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-23-5	Sodium	180 J	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.74	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-62-2	Vanadium	23.7	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-66-6	Zinc	41.1	5.48	5.48	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-32  
**Lab Sample ID:** 1602114-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:30	Matrix: Soil
Percent Solids: 27.00	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	24.8	1.81	1.81	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	7.41	7.41	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	3.70	3.70	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	27.0	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-33  
**Lab Sample ID:** 1602114-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:15	Matrix: Soil
Percent Solids: 86.50	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	1.58	1.58	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.31	2.31	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.5	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-1  
**Lab Sample ID:** 1602114-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Date Sampled: 11/07/16 12:20	Matrix: Soil
Percent Solids: 87.40	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	14.3	1.60	1.60	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.29	2.29	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.14	1.14	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.4	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



***Appendix B***

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***Laboratory  
QC  
Documentation***

## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1602114  
**Project:** 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6K1113-BLK1	File ID:	A10256.D
Batch:	B6K1113	Prepared:	11/11/16 10:35	Analyzed:	11/11/16 10:35
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6K1109	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	3.67	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	1.67	1.00	2.00	J
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602114  
 Project: 255 East 138th Street  
 Sequence: S6K0809

Instrument: GC/MS A  
 Calibration: 1612601

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>EP-32 (1602114-01RE1)</b>			<i>Lab File ID: A10229.D</i>		<i>Analyzed: 11/08/16 18:29</i>				
Pentafluorobenzene	427238	6.41	738695	6.39	58	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	701902	7.11	1252834	7.09	56	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	421272	11.21	999139	11.19	42	50 - 200	0.0200	+/-0.50	*
1,4-Dichlorobenzene-d4	114630	16.73	434676	16.72	26	50 - 200	0.0100	+/-0.50	*
<b>EP-33 (1602114-02)</b>			<i>Lab File ID: A10230.D</i>		<i>Analyzed: 11/08/16 19:00</i>				
Pentafluorobenzene	595501	6.41	738695	6.39	81	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	1031534	7.11	1252834	7.09	82	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	849059	11.21	999139	11.19	85	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	382516	16.74	434676	16.72	88	50 - 200	0.0200	+/-0.50	
<b>DUP-1 (1602114-03)</b>			<i>Lab File ID: A10232.D</i>		<i>Analyzed: 11/08/16 20:03</i>				
Pentafluorobenzene	607409	6.4	738695	6.39	82	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1090133	7.11	1252834	7.09	87	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	896225	11.21	999139	11.19	90	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	422202	16.73	434676	16.72	97	50 - 200	0.0100	+/-0.50	

\* Values outside of QC limits



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602114  
 Project: 255 East 138th Street  
 Sequence: S6K1109

Instrument: GC/MS A  
 Calibration: 16K2901

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S6K1109-CCV1)</b>			<i>Lab File ID: A10254.D</i>		<i>Analyzed: 11/11/16 09:23</i>				
Pentafluorobenzene	864064	6.43	880849	6.4	98	50 - 200	0.0300	+/-0.50	
1,4-Difluorobenzene	1438702	7.13	1424949	7.1	101	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	1139531	11.23	1120812	11.2	102	50 - 200	0.0300	+/-0.50	
1,4-Dichlorobenzene-d4	505339	16.77	504471	16.72	100	50 - 200	0.0500	+/-0.50	
<b>Blank (S6K1113-BLK1)</b>			<i>Lab File ID: A10256.D</i>		<i>Analyzed: 11/11/16 10:35</i>				
Pentafluorobenzene	905617	6.43	864064	6.43	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1506218	7.13	1438702	7.13	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1177299	11.22	1139531	11.23	103	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	531127	16.77	505339	16.77	105	50 - 200	0.0000	+/-0.50	
<b>LCS (S6K1113-BS1)</b>			<i>Lab File ID: A10257.D</i>		<i>Analyzed: 11/11/16 11:55</i>				
Pentafluorobenzene	887707	6.42	864064	6.43	103	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	1460486	7.12	1438702	7.13	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1171768	11.22	1139531	11.23	103	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	523826	16.77	505339	16.77	104	50 - 200	0.0000	+/-0.50	
<b>EP-32 (1602114-01)</b>			<i>Lab File ID: A10263.D</i>		<i>Analyzed: 11/11/16 15:12</i>				
Pentafluorobenzene	478476	6.42	864064	6.43	55	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	802078	7.12	1438702	7.13	56	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	507968	11.22	1139531	11.23	45	50 - 200	-0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	163708	16.75	505339	16.77	32	50 - 200	-0.0200	+/-0.50	*
<b>DUP-1 (1602114-03RE1)</b>			<i>Lab File ID: A10264.D</i>		<i>Analyzed: 11/11/16 15:43</i>				
Pentafluorobenzene	907351	6.41	864064	6.43	105	50 - 200	-0.0200	+/-0.50	
1,4-Difluorobenzene	1532505	7.12	1438702	7.13	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1193697	11.22	1139531	11.23	105	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	541899	16.75	505339	16.77	107	50 - 200	-0.0200	+/-0.50	



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Calibration:	16I2601	Instrument:	GC/MS A
		Calibration Date:	9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.351277E-02	3.266802		
Acrylonitrile	0.1259208	1.826369		
Acetone	0.15486	44.48451		
Dichlorodifluoromethane	0.499218	18.20399		
Chloromethane	0.8073298	8.718946	SPCC (0.1)	
Vinyl chloride	0.7694418	7.703534	CCC (20)	
Bromomethane	0.5686235	8.683739		
Chloroethane	0.2688624	7.617021		
Trichlorofluoromethane	0.6190958	14.38761		
Freon 113	0.6712929	3.935529		
1,1-Dichloroethene	0.7483666	3.886904	CCC (20)	
Carbon disulfide	2.187451	5.255553		
Methyl Acetate	0.2917014	12.91849		
Methylene Chloride	1.217577	76.2124		
trans-1,2-Dichloroethene	0.7800425	2.618897		
1,1-Dichloroethane	0.9053845	1.552322	SPCC (0.1)	
Vinyl acetate	0.9979671	2.328048		
2,2-Dichloropropane	0.6953845	1.781966		
2-Butanone	0.1759346	6.783492		
cis-1,2-Dichloroethene	0.6901689	3.64564		
Chloroform	0.8372235	3.891803	CCC (20)	
Bromochloromethane	0.2956708	3.201543		
Cyclohexane	1.170159	4.798114		
1,1,1-Trichloroethane	0.648608	1.888395		
t-Butyl alcohol	2.808784E-02	5.649641		



**INITIAL CALIBRATION DATA SHEET (Continued)**

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602114  
 Project: 255 East 138th Street

Calibration: 16I2601	Instrument: GC/MS A
	Calibration Date: 9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.269878	5.462766		
Styrene	1.004685	3.654105		
Bromoform	0.126804	12.77923	SPCC (0.1)	
Isopropylbenzene	3.577724	2.811909		
1,1,2,2-Tetrachloroethane	0.5674752	5.514581	SPCC (0.3)	
1,2,3-Trichloropropane	0.4067208	2.182686		
n-Propyl Benzene	4.507736	4.861344		
Bromobenzene	1.26774	2.283857		
1,3,5-Trimethylbenzene	2.70715	1.972619		
2-Chlorotoluene	2.418182	4.192353		
4-Chlorotoluene	2.495661	5.635875		
tert-Butylbenzene	2.362289	2.381115		
1,2,4-Trimethylbenzene	2.733594	2.861654		
sec-Butylbenzene	3.796163	4.092442		
p-Isopropyltoluene	3.018334	2.96632		
1,3-Dichlorobenzene	1.483864	2.832892		
1,4-Dichlorobenzene	1.461118	5.01866		
n-Butyl Benzene	3.153113	5.000167		
1,2-Dichlorobenzene	1.271064	4.206623		
1,2-Dibromo-3-chloropropane	7.382205E-02	31.5289		
1,2,4-Trichlorobenzene	0.8197279	7.165339		
Hexachlorobutadiene	0.3444627	5.335948		
Naphthalene	1.466261	5.928814		
1,2,3-Trichlorobenzene	0.6870029	8.746632		
Methyl tert-Butyl Ether	1.836288	2.60316		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Calibration:	16K2901	Instrument:	GC/MS A
		Calibration Date:	11/11/2016 2:06:14PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	4.205456E-02	9.158955		
Acrylonitrile	0.1110298	6.457832		
Acetone	0.2259427	28.80095		
Dichlorodifluoromethane	0.4876265	22.22086		
Chloromethane	0.8110507	5.245469	SPCC (0.1)	
Vinyl chloride	0.763105	5.215547	CCC (20)	
Bromomethane	0.5218592	1.654538		
Chloroethane	0.2265883	7.665727		
Trichlorofluoromethane	0.5953867	9.478552		
Freon 113	0.565017	5.065087		
1,1-Dichloroethene	0.7385413	4.415367	CCC (20)	
Carbon disulfide	1.917528	4.228956		
Methyl Acetate	0.2397146	13.29626		
Methylene Chloride	1.205642	77.89174		
trans-1,2-Dichloroethene	0.774129	4.626237		
1,1-Dichloroethane	0.9423943	6.232792	SPCC (0.1)	
Vinyl acetate	0.8741036	4.967296		
2,2-Dichloropropane	0.7218103	7.188516		
2-Butanone	0.2327747	7.085253		
cis-1,2-Dichloroethene	0.7206962	3.877722		
Chloroform	0.8320457	5.649852	CCC (20)	
Bromochloromethane	0.3100194	5.695596		
Cyclohexane	1.046255	3.94819		
1,1,1-Trichloroethane	0.6778045	6.755606		
t-Butyl alcohol	2.403454E-02	5.023967		



**INITIAL CALIBRATION DATA SHEET (Continued)**

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Calibration: <b>16K2901</b>	Instrument: <b>GC/MS A</b>
	Calibration Date: <b>11/11/2016 2:06:14PM</b>

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Styrene	1.031401	1.832325		
Bromoform	0.1468379	14.89628	SPCC (0.1)	
Isopropylbenzene	3.947915	2.126795		
1,1,2,2-Tetrachloroethane	0.6329738	5.922484	SPCC (0.3)	
1,2,3-Trichloropropane	0.4314435	6.002459		
n-Propyl Benzene	4.86141	1.832751		
Bromobenzene	1.341578	2.412734		
1,3,5-Trimethylbenzene	2.968746	2.399716		
2-Chlorotoluene	2.585701	2.45976		
4-Chlorotoluene	2.668629	2.912948		
tert-Butylbenzene	2.599352	2.293025		
1,2,4-Trimethylbenzene	2.973936	2.253427		
sec-Butylbenzene	4.194212	2.239044		
p-Isopropyltoluene	3.301733	1.960102		
1,3-Dichlorobenzene	1.656841	2.206572		
1,4-Dichlorobenzene	1.610636	2.17489		
n-Butyl Benzene	3.357056	3.288334		
1,2-Dichlorobenzene	1.409658	1.690112		
1,2-Dibromo-3-chloropropane	8.713914E-02	31.41804		
1,2,4-Trichlorobenzene	0.9117214	3.144935		
Hexachlorobutadiene	0.4083687	1.979488		
Naphthalene	1.628325	4.262825		
1,2,3-Trichlorobenzene	0.7550381	3.480348		
Methyl tert-Butyl Ether	1.750516	2.162257		
1,2-Dichloroethane-d4	0.2089738	4.232093		





## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Instrument ID: <b>GC/MS A</b>	Calibration: <b>1612601</b>
Lab File ID: <b>A10215.D</b>	Calibration Date: <b>09/22/16 14:34</b>
Sequence: <b>S6K0809</b>	Injection Date: <b>11/08/16</b>
Lab Sample ID: <b>S6K0809-CCV1</b>	Injection Time: <b>10:39</b>

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	235	5.351277E-02	5.027488E-02		-6.1	
Acrylonitrile	A	250	240	0.1259208	0.1206582		-4.2	
Acetone	L	50.0	45.0	0.15486	0.1109253		-28.4	
Dichlorodifluoromethane	L	50.0	40.0	0.499218	0.3990889		-20.1	
Chloromethane	A	50.0	53.3	0.8073298	0.8605094	0.1	6.6	
Vinyl chloride	A	50.0	55.9	0.7694418	0.8600505		11.8	20
Bromomethane	A	50.0	53.4	0.5686235	0.6075728		6.8	
Chloroethane	A	50.0	46.3	0.2688624	0.2487563		-7.5	
Trichlorofluoromethane	A	50.0	58.8	0.6190958	0.727399		17.5	
Freon 113	A	50.0	45.7	0.6712929	0.6139394		-8.5	
1,1-Dichloroethene	A	50.0	45.2	0.7483666	0.6764429		-9.6	20
Carbon disulfide	A	50.0	42.3	2.187451	1.850171		-15.4	
Methyl Acetate	A	50.0	40.8	0.2917014	0.2377476		-18.5	
Methylene Chloride	L	50.0	53.9	1.217577	0.8057629		-33.8	
trans-1,2-Dichloroethene	A	50.0	48.2	0.7800425	0.7520871		-3.6	
1,1-Dichloroethane	A	50.0	54.2	0.9053845	0.9810842	0.1	8.4	
Vinyl acetate	A	50.0	49.7	0.9979671	0.9921104		-0.6	
2,2-Dichloropropane	A	50.0	54.1	0.6953845	0.7529535		8.3	
2-Butanone	A	50.0	48.6	0.1759346	0.170854		-2.9	
cis-1,2-Dichloroethene	A	50.0	52.3	0.6901689	0.721563		4.5	
Chloroform	A	50.0	51.6	0.8372235	0.8640373		3.2	20
Bromochloromethane	A	50.0	53.6	0.2956708	0.3167018		7.1	
Cyclohexane	A	50.0	49.9	1.170159	1.16885		-0.1	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Instrument ID: <b>GC/MS A</b>	Calibration: <b>16I2601</b>
Lab File ID: <b>A10215.D</b>	Calibration Date: <b>09/22/16 14:34</b>
Sequence: <b>S6K0809</b>	Injection Date: <b>11/08/16</b>
Lab Sample ID: <b>S6K0809-CCV1</b>	Injection Time: <b>10:39</b>

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	57.0	0.8997825	1.025433	0.3		14.0
1,1,1,2-Tetrachloroethane	A	50.0	57.6	0.2656336	0.3059474			15.2
m,p-Xylenes	A	100	111	1.1954	1.328305			11.1
o-Xylene	A	100	110	1.269878	1.390613			9.5
Styrene	A	100	112	1.004685	1.123826			11.9
Bromoform	A	50.0	59.2	0.126804	0.1501623	0.1		18.4
Isopropylbenzene	A	50.0	57.2	3.577724	4.091742			14.4
1,1,2,2-Tetrachloroethane	A	50.0	58.0	0.5674752	0.6576692	0.3		15.9
1,2,3-Trichloropropane	A	50.0	54.4	0.4067208	0.4425595			8.8
n-Propyl Benzene	A	50.0	56.0	4.507736	5.051174			12.1
Bromobenzene	A	50.0	54.9	1.26774	1.391147			9.7
1,3,5-Trimethylbenzene	A	50.0	57.1	2.70715	3.090306			14.2
2-Chlorotoluene	A	50.0	54.9	2.418182	2.655306			9.8
4-Chlorotoluene	A	50.0	55.8	2.495661	2.785638			11.6
tert-Butylbenzene	A	50.0	57.0	2.362289	2.69097			13.9
1,2,4-Trimethylbenzene	A	50.0	56.4	2.733594	3.081047			12.7
sec-Butylbenzene	A	50.0	56.5	3.796163	4.29034			13.0
p-Isopropyltoluene	A	50.0	56.9	3.018334	3.43411			13.8
1,3-Dichlorobenzene	A	50.0	56.9	1.483864	1.689419			13.9
1,4-Dichlorobenzene	A	50.0	55.7	1.461118	1.627474			11.4
n-Butyl Benzene	A	50.0	56.4	3.153113	3.553679			12.7
1,2-Dichlorobenzene	A	50.0	55.0	1.271064	1.397533			9.9
1,2-Dibromo-3-chloropropane	L	50.0	52.0	7.382205E-02	9.029024E-02			22.3



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1602114  
**Project:** 255 East 138th Street

Instrument ID: GC/MS A	Calibration: 16I2601
Lab File ID: A10215.D	Calibration Date: 09/22/16 14:34
Sequence: S6K0809	Injection Date: 11/08/16
Lab Sample ID: S6K0809-CCV1	Injection Time: 10:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	56.0	0.8197279	0.9180562		12.0	
Hexachlorobutadiene	A	50.0	62.1	0.3444627	0.4279601		24.2	
Naphthalene	A	50.0	54.6	1.466261	1.601894		9.3	
1,2,3-Trichlorobenzene	A	50.0	55.7	0.6870029	0.7647627		11.3	
Methyl tert-Butyl Ether	A	100	101	1.836288	1.85181		0.8	
1,2-Dichloroethane-d4	A	50.0	45.2	0.228735	0.2065406		-9.7	
Toluene-d8	A	50.0	49.5	1.08216	1.070507		-1.1	
Bromofluorobenzene	A	50.0	50.4	0.3733596	0.3765647		0.9	

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602114**  
 Project: **255 East 138th Street**

Instrument ID: GC/MS A	Calibration: 16K2901
Lab File ID: A10254.D	Calibration Date: 11/11/16 14:06
Sequence: S6K1109	Injection Date: 11/11/16
Lab Sample ID: S6K1109-CCV1	Injection Time: 09:23

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	267	4.205456E-02	4.488232E-02		6.7	
Acrylonitrile	A	250	264	0.1110298	0.1174163		5.8	
Acetone	L	50.0	55.4	0.2259427	0.2234557		-1.1	
Dichlorodifluoromethane	L	50.0	47.7	0.4876265	0.4766915		-2.2	
Chloromethane	A	50.0	48.7	0.8110507	0.7901128	0.1	-2.6	
Vinyl chloride	A	50.0	50.6	0.763105	0.7727911		1.3	20
Bromomethane	A	50.0	50.4	0.5218592	0.5257469		0.7	
Chloroethane	A	50.0	46.4	0.2265883	0.210158		-7.3	
Trichlorofluoromethane	A	50.0	49.1	0.5953867	0.584996		-1.7	
Freon 113	A	50.0	50.0	0.565017	0.5652417		0.04	
1,1-Dichloroethene	A	50.0	48.9	0.7385413	0.7226328		-2.2	20
Carbon disulfide	A	50.0	48.6	1.917528	1.865081		-2.7	
Methyl Acetate	A	50.0	46.5	0.2397146	0.2228955		-7.0	
Methylene Chloride	L	50.0	50.9	1.205642	0.7753835		-35.7	
trans-1,2-Dichloroethene	A	50.0	50.1	0.774129	0.7750433		0.1	
1,1-Dichloroethane	A	50.0	50.2	0.9423943	0.9463662	0.1	0.4	
Vinyl acetate	A	50.0	51.0	0.8741036	0.8909953		1.9	
2,2-Dichloropropane	A	50.0	51.4	0.7218103	0.7424682		2.9	
2-Butanone	A	50.0	55.4	0.2327747	0.2579763		10.8	
cis-1,2-Dichloroethene	A	50.0	50.7	0.7206962	0.7303811		1.3	
Chloroform	A	50.0	50.5	0.8320457	0.839947		0.9	20
Bromochloromethane	A	50.0	51.3	0.3100194	0.3179209		2.5	
Cyclohexane	A	50.0	49.7	1.046255	1.039682		-0.6	



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Project: **255 East 138th Street**  
 Work Order: **1602114**

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	62.20	Laboratory ID:	B6K0901-MS1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Hexachlorocyclopentadiene	2030	ND	659	33	20 - 160
2,4,6-Trichlorophenol	2030	ND	1740	86	70 - 130
2,4,5-Trichlorophenol	2030	ND	1740	86	70 - 130
2-Chloronaphthalene	2030	ND	1830	90	70 - 130
2-Nitroaniline	2030	ND	1750	87	70 - 130
Dimethylphthalate	2030	ND	1860	92	70 - 130
Acenaphthylene	2030	ND	1840	91	70 - 130
3-Nitroaniline	2030	ND	1320	65	70 - 130
Acenaphthene	2030	ND	1850	91	70 - 130
2,4-Dinitrophenol	2030	ND	1760	87	20 - 160
4-Nitrophenol	2030	ND	1730	85	20 - 160
Dibenzofuran	2030	ND	1870	92	70 - 130
2,6-Dinitrotoluene	2030	ND	1860	92	70 - 130
2,4-Dinitrotoluene	2030	ND	1930	95	70 - 130
2,3,4,6-Tetrachlorophenol	2030	ND	1670	82	70 - 130
Diethyl phthalate	2030	ND	1950	96	70 - 130
4-Chlorophenyl-phenylether	2030	ND	1730	85	70 - 130
Fluorene	2030	ND	1900	94	70 - 130
4-Nitroaniline	2030	ND	1580	78	70 - 130
4,6-Dinitro-2-methylphenol	2030	ND	2010	99	70 - 130
Carbazole	2030	ND	1890	93	70 - 130
N-Nitrosodiphenylamine	2030	ND	2090	103	20 - 160
Azobenzene	2030	ND	2060	102	70 - 130
4-Bromophenyl-phenylether	2030	ND	1820	90	70 - 130
Hexachlorobenzene	2030	ND	1840	91	70 - 130
Pentachlorophenol	2030	ND	1640	81	20 - 160
Phenanthrene	2030	88.7	2040	96	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.20	Laboratory ID:	B6K0901-MSD1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Pyridine	2030	997	49	11	30	20 - 160
N-Nitrosodimethylamine	2030	1200	59	9	30	20 - 160
Aniline	2030	955	47	11	30	20 - 160
Phenol	2030	1470	72	11	30	20 - 160
bis(2-chloroethyl)ether	2030	1360	67 *	12	30	70 - 130
2-Chlorophenol	2030	1470	73	10	30	70 - 130
1,3-Dichlorobenzene	2030	1430	71	10	30	70 - 130
1,4-Dichlorobenzene	2030	1490	73	9	30	70 - 130
Benzyl alcohol	2030	1490	73	11	30	20 - 160
1,2-Dichlorobenzene	2030	1490	73	11	30	70 - 130
2-Methylphenol	2030	1460	72	11	30	20 - 160
bis(2-chloroisopropyl)ether	2030	1320	65 *	12	30	70 - 130
3 & 4-Methylphenol	2030	1540	73	13	30	20 - 160
N-Nitroso-di-n-propylamine	2030	1510	75	12	30	70 - 130
Hexachloroethane	2030	1300	64	10	30	20 - 160
Nitrobenzene	2030	1500	74	9	30	70 - 130
Isophorone	2030	1400	69 *	10	30	70 - 130
2-Nitrophenol	2030	1560	77	9	30	70 - 130
2,4-Dimethylphenol	2030	1450	71	10	30	70 - 130
bis(2-chloroethoxy)methane	2030	1370	68 *	11	30	70 - 130
2,4-Dichlorophenol	2030	1520	75	12	30	70 - 130
1,2,4-Trichlorobenzene	2030	1470	73	8	30	70 - 130
Naphthalene	2030	1610	79	8	30	70 - 130
4-Chloroaniline	2030	675	33	3	30	20 - 160
Hexachlorobutadiene	2030	1450	71	9	30	70 - 130
4-Chloro-3-methylphenol	2030	1520	75	10	30	70 - 130
2-Methylnaphthylene	2030	1640	81	8	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602114

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.20	Laboratory ID:	B6K0901-MSD1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Hexachlorocyclopentadiene	2030	666	33	1	30	20 - 160
2,4,6-Trichlorophenol	2030	1610	79	8	30	70 - 130
2,4,5-Trichlorophenol	2030	1640	81	6	30	70 - 130
2-Chloronaphthalene	2030	1720	85	6	30	70 - 130
2-Nitroaniline	2030	1650	81	6	30	70 - 130
Dimethylphthalate	2030	1810	89	3	30	70 - 130
Acenaphthylene	2030	1710	85	7	30	70 - 130
3-Nitroaniline	2030	1250	62	5	30	70 - 130
Acenaphthene	2030	1730	85	7	30	70 - 130
2,4-Dinitrophenol	2030	1540	76	13	30	20 - 160
4-Nitrophenol	2030	1510	75	13	30	20 - 160
Dibenzofuran	2030	1780	88	5	30	70 - 130
2,6-Dinitrotoluene	2030	1720	85	8	30	70 - 130
2,4-Dinitrotoluene	2030	1710	85	12	30	70 - 130
2,3,4,6-Tetrachlorophenol	2030	1520	75	10	30	70 - 130
Diethyl phthalate	2030	1830	90	7	30	70 - 130
4-Chlorophenyl-phenylether	2030	1640	81	5	30	70 - 130
Fluorene	2030	1820	90	5	30	70 - 130
4-Nitroaniline	2030	1490	73	6	30	70 - 130
4,6-Dinitro-2-methylphenol	2030	1850	91	8	30	70 - 130
Carbazole	2030	1840	91	3	30	70 - 130
N-Nitrosodiphenylamine	2030	1950	96	7	30	20 - 160
Azobenzene	2030	1740	86	17	30	70 - 130
4-Bromophenyl-phenylether	2030	1700	84	6	30	70 - 130
Hexachlorobenzene	2030	1730	85	6	30	70 - 130
Pentachlorophenol	2030	1440	71	13	30	20 - 160
Phenanthrene	2030	2610	124	24	30	70 - 130



## LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street  
 Work Order: 1602114

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6K0901	Lab Sample ID:	B6K0901-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1070	64	20 - 160
N-Nitrosodimethylamine	1670	1150	69	20 - 160
Aniline	1670	1090	66	20 - 160
Phenol	1670	1240	74	20 - 160
bis(2-chloroethyl)ether	1670	1210	73	70 - 130
2-Chlorophenol	1670	1290	77	70 - 130
1,3-Dichlorobenzene	1670	1270	76	70 - 130
1,4-Dichlorobenzene	1670	1300	78	70 - 130
Benzyl alcohol	1670	1330	80	20 - 160
1,2-Dichlorobenzene	1670	1310	78	70 - 130
2-Methylphenol	1670	1310	78	20 - 160
bis(2-chloroisopropyl)ether	1670	1170	70	70 - 130
3 & 4-Methylphenol	1670	1340	80	20 - 160
N-Nitroso-di-n-propylamine	1670	1340	80	70 - 130
Hexachloroethane	1670	1300	78	20 - 160
Nitrobenzene	1670	1280	77	70 - 130
Isophorone	1670	1190	71	70 - 130
2-Nitrophenol	1670	1310	79	70 - 130
2,4-Dimethylphenol	1670	1240	74	70 - 130
bis(2-chloroethoxy)methane	1670	1210	72	70 - 130
2,4-Dichlorophenol	1670	1330	80	70 - 130
1,2,4-Trichlorobenzene	1670	1260	76	70 - 130
Naphthalene	1670	1360	82	70 - 130
4-Chloroaniline	1670	1040	62	70 - 130
Hexachlorobutadiene	1670	1200	72	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1410	85	70 - 130
Hexachlorocyclopentadiene	1670	1050	63	20 - 160





## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: 1602114  
 Project: 255 East 138th Street

Calibration:	16I2803	Instrument:	GC/MS E
		Calibration Date:	9/14/2016 3:40:46PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014123	7.169767		
4-Chloroaniline	0.4402657	5.784603		
Hexachlorobutadiene	0.1464964	3.84209	CCC (20)	
Caprolactam	0.1709709	6.445732		
4-Chloro-3-methylphenol	0.2768656	2.695514	CCC (20)	
2-Methylnaphthylene	0.6891113	5.691868		
1,2,4,5-Tetrachlorobenzene	0.5149505	9.15819		
Hexachlorocyclopentadiene	0.2714654	5.752113	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3723882	3.624578	CCC (20)	
2,4,5-Trichlorophenol	0.3753609	3.607611		
2-Chloronaphthalene	1.119885	10.07415		
1,1-Biphenyl	1.384107	13.65235		
2-Nitroaniline	0.315577	3.81697		
Dimethylphthalate	1.253171	7.026729		
Acenaphthylene	1.848672	8.44986		
3-Nitroaniline	0.3983313	2.923779		
Acenaphthene	1.122913	5.841823	CCC (20)	
2,4-Dinitrophenol	0.1466101	43.82366	SPCC (0.05)	
4-Nitrophenol	9.450922E-02	12.00512	SPCC (0.05)	
Dibenzofuran	1.533681	7.637788		
2,6-Dinitrotoluene	0.3239296	3.154134		
2,4-Dinitrotoluene	0.3991266	4.741015		
2,3,4,6-Tetrachlorophenol	0.2782603	4.7421		
Diethyl phthalate	1.215381	4.575979		
4-Chlorophenyl-phenylether	0.526632	7.91456		



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602114  
 Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6K0722	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B6K0722-MS1
		Client Sample ID:	1602113-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Aluminum	284 *	4320	5880 *	550 *	75 - 125
Antimony	284	18.3	298	98.5	75 - 125
Arsenic	284	16.1	303	101	75 - 125
Barium	284	385	662	97.6	75 - 125
Beryllium	284	ND	280	98.7	75 - 125
Cadmium	284	5.40	275	94.9	75 - 125
Calcium	284 *	9010	9170 *	57.8 *	75 - 125
Chromium	284	36.5	305	94.5	75 - 125
Cobalt	284	9.20	271	92.2	75 - 125
Copper	284	136	427	102	75 - 125
Lead	284	740	1190 *	157 *	75 - 125
Magnesium	284 *	2570	2740 *	60.1 *	75 - 125
Manganese	284	272	541	94.7	75 - 125
Nickel	284	24.9	281	90.1	75 - 125
Potassium	284	663	1180 *	181 *	75 - 125
Selenium	284	ND	271	95.4	75 - 125
Silver	28.4	ND	26.6	93.6	75 - 125
Sodium	284	340	835 *	175 *	75 - 125
Thallium	284	ND	238	83.9	75 - 125
Vanadium	284	41.3	323	99.4	75 - 125
Zinc	284	608	952	122	75 - 125

\* Amt. Added < 25% Sample Conc.



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602114  
 Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6K0722	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B6K0722-MSD1
		Client Sample ID:	1602113-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Aluminum	284	5820	528 *	1.07	20	75 - 125
Antimony	284	301	99.7	1.14	20	75 - 125
Arsenic	284	304	102	0.430	20	75 - 125
Barium	284	697	110	5.18	20	75 - 125
Beryllium	284	284	100	1.33	20	75 - 125
Cadmium	284	276	95.5	0.639	20	75 - 125
Calcium	284	8830	-62.2 *	3.78	20	75 - 125
Chromium	284	311	96.7	2.03	20	75 - 125
Cobalt	284	273	92.9	0.752	20	75 - 125
Copper	284	440	107	2.87	20	75 - 125
Lead	284	1250	181 *	5.58	20	75 - 125
Magnesium	284	2640	26.7 *	3.52	20	75 - 125
Manganese	284	538	93.7	0.537	20	75 - 125
Nickel	284	284	91.2	1.11	20	75 - 125
Potassium	284	1190	186 *	1.15	20	75 - 125
Selenium	284	273	96.1	0.794	20	75 - 125
Silver	28.4	27.1	95.3	1.82	20	75 - 125
Sodium	284	806	164 *	3.60	20	75 - 125
Thallium	284	239	84.2	0.381	20	75 - 125
Vanadium	284	325	100	0.630	20	75 - 125
Zinc	284	905	105	5.07	20	75 - 125



## SERIAL DILUTION

### EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1602114
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6K0802-SRD1
Sequence:	S6K0802	Source:	ZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Magnesium	2570	2450	4.58		10.00
Antimony	18.3	ND	N/A		10.00
Arsenic	16.1	14.6	10.2	*	10.00
Barium	385	354	8.39		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	5.40	4.77	12.4	*	10.00
Calcium	9010	8740	3.07		10.00
Chromium	36.5	34.3	6.29		10.00
Cobalt	9.20	ND	N/A		10.00
Aluminum	4320	3980	8.03		10.00
Lead	740	756	2.12		10.00
Manganese	272	261	4.12		10.00
Nickel	24.9	24.0	4.00		10.00
Potassium	663	604	9.24		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	340	312	8.62		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	41.3	37.9	8.56		10.00
Zinc	608	600	1.29		10.00
Copper	136	131	4.39		10.00

\* Values outside of QC limits

## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Former G & C Services  
255 East 138th Street  
Bronx, NY  
NYSDEC BCP # C203057**

**SDG: 1602245**  
8 Soil Samples

Prepared for:

**Brinkerhoff Environmental Services, Inc.  
1805 Atlantic Avenue  
Manasquan, NJ 08736**

**December 2016**





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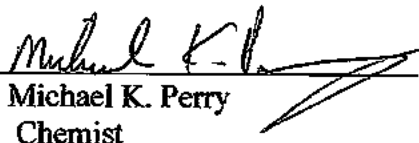
**REVIEWER'S NARRATIVE**  
**SDG 1602245**

The data associated with this Sample Delivery Group (SDG) 1602245, analyzed by Accredited Analytical Resources, LLC, Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: \_\_\_\_\_

  
Michael K. Perry  
Chemist

Date: \_\_\_\_\_

12/18/16

## 1.0 SUMMARY

<b>SITE:</b>	255 East 138 <sup>th</sup> Street. Bronx, NY
<b>SAMPLING DATE:</b>	December 2, 2016
<b>SAMPLE TYPE:</b>	8 soil samples
<b>LABORATORY:</b>	Accredited Analytical Resources, LLC. Carteret, NJ
<b>SDG No.:</b>	1602245

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for eight soil samples collected on December 2, 2016. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602245. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1**

**DATA VALIDATION GUIDANCE DOCUMENTS**

Analyte Type	Validation Guidance
VOCs	<p>USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.</p> <p>USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.</p>
SVOCs	<p>USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.</p>
Pesticides/PCBs	<p>USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.</p>
Metals	<p>USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.</p>
Gen Chemistry	<p>NYSDEC, 2005, Analytical Services Protocols (ASP)</p>
VOCs (Ambient air)	<p>USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.</p>

**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG 1602245, eight samples were analyzed and results were reported for 1518 analytes. Five results were rejected. Even though some results were flagged with a "J" as estimated, all other results (99.7 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.



Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-34 EP-35 EP-37	Methylene Chloride (3.28)	J detects	Method Blank contamination	J detects up to 10X MB level
EP-35 EP-36 EP-37	Isopropylbenzene 1,1,2,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorobenzene	UJ non-detects J detects	IS#4 area < 50 % QC limit	Data may be biased low
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated

SDG 1602245

All samples	Acetone Methylene Chloride 2-Chloroethylvinylether	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated
-------------	--	-----------------------------	----------------	-----------------------

**Table 6-2 SVOCs**

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	4-Chloroaniline 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-39 EP-39 RE	3,3'-Dichlorobenzene Benzo(a)anthracene bis(2-Ethylhexyl)phthlate Chrysene	R non-detects J detects	IS #5 area < 50 % QC limit	Non-detects are unusable, detects may be biased low
EP-39 EP-39 RE EP-34	Di-n-octylphthlate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	R non-detects J detects	IS #6 area < 50 % QC limit	Non-detects are unusable, detects may be biased low

**Table 6-3 Pesticides**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

**Table 6-4 PCBs**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

**Table 6-5 TAL Metals**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
All samples	Sodium	J Detects	Matrix Spike rec > 125 %	Data is estimated
All samples	Aluminum	J Detects	Serial dilution > 10 %	Data is estimated

**Table 6-6 Wet Chemistry**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
none		none		

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

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*Validated  
Analytical  
Results*



# Accredited Analytical Resources, LLC.

## ANALYTICAL REPORT

for

### BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

<u>Client Sample ID:</u>	<u>Lab Sample ID:</u>
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel  
Technical Director

12/09/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



## Case Narrative

### Conformance / Non-Conformance Summary

AAR Work Order: 1602245

Accredited Analytical Resources, LLC received 8 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 12/02/2016 16:45.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) for Batch B6L0515 and B6L0614 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B6L0515, B6L0614 and B6L0715 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for affected compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6L0502 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6L0502 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6L0502-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSd. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel  
Technical Director



# Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

## CHAIN OF CUSTODY FORM

CLIENT NAME: Brinkerhoff Environmental  
 ADDRESS: 1805 Atlantic Ave.  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE): NJ **NY** PA  
 PROJECT NAME: 255 East 138th Street  
 CONTACT: Sean Harrison  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-2106  
 INITIAL RESULTS TO: Sean Harrison  
 EMAIL FOR INVOICE: sharrison@brinkenv.com

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1602245  
 P.O. # 103R18B

### ANALYSIS

PRES. CODE -	<u>S</u>	<u>S</u>	<u>S</u>							
CONT. CODE -	<u>E</u>	<u>G</u>	<u>G</u>							

### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAMS (G)	COMP. (G)				AAR SAMPLE #
EP-34	12/21/16 1415	S	3/4	G	X	X	X			-01
EP-35	1424		3							-02
EP-36	1432		4							-03
EP-37	1440		5							-04
EP-38	1455		4							-05
EP-39	1505		5							-06
EP-40	1510		6							-07
DUP-2	1520		6		X	X	X			-08

Handwritten notes in analysis table:  
TALICL  
Hex chrom  
Trichrom

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO3 3 = H2SO4 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY **72 HRS.** 48 HRS. 24 HRS. OTHER X

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL X EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: 13 DAY TAT on Results, 5 DAY TAT for CATB Report.  
NYSDEC Category B data deliverables.  
 COOL FR TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: R. O.B.

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COUNTER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY: <u>Rachael Barr</u>		RECEIVED BY: <u>K. MURIZ</u>	
Print Name: <u>Rachael Barr</u>	Print Name: <u>K. MURIZ</u>	Print Name: _____	Print Name: _____
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: _____	Signature: _____
Agent of: <u>Brinkerhoff</u>	Agent of: <u>AAR</u>	Agent of: _____	Agent of: _____
Date Received: <u>12/2/16</u> Time: <u>1645</u>	Date Received: <u>/ /</u> Time: _____	Date Received: <u>/ /</u> Time: _____	Date Received: <u>/ /</u> Time: _____

RELINQUISHED BY: _____		RECEIVED BY: _____	
Print Name: _____	Print Name: _____	Print Name: _____	Print Name: _____
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Agent of: _____	Agent of: _____	Agent of: _____	Agent of: _____
Date Received: <u>/ /</u> Time: _____	Date Received: <u>/ /</u> Time: _____	Date Received: <u>/ /</u> Time: _____	Date Received: <u>/ /</u> Time: _____





### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

### Data Qualifiers

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-34**  
 Lab Sample ID: **1602245-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17 J	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-0	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND UJ	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.20	2.40	U
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>US</i>	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND <i>U.S</i>	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND <i>U.S</i>	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-35**  
 Lab Sample ID: **1602245-02**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.17	2.35	U
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND U.S	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND U.S	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND ↓	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND ↓	1.17	2.35	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-35**  
 Lab Sample ID: **1602245-02**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND <i>4.5</i>	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-36**  
 Lab Sample ID: **1602245-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND <i>UJ</i>	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U





**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-36**  
 Lab Sample ID: **1602245-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.26	2.51	U
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>u/s</i>	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromofom	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND <i>u/s</i>	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND ↓	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND ↓	1.26	2.51	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 266 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND <sup>15</sup>	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U
	<u>Surrogate</u>	<u>% Recovery</u>		<u>Recovery Limits</u>	
	1,2-Dichloroethane-d4	115%		70-130	
	Toluene-d8	91%		70-130	
	Bromofluorobenzene	78%		70-130	

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 265 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND <i>UJ</i>	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.18	2.37	U
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>uJ</i>	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND <i>uJ</i>	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND <i>↓</i>	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND <i>↓</i>	1.18	2.37	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 265 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND <sup>uJ</sup>	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Client Sample ID: EP-38  
 Lab Sample ID: 1602245-05  
 Project: 255 East 138th Street  
 Work Order: 1602245

Date Sampled: 12/02/16 14:55	Prep Date: 12/05/16 20:11	Matrix: Soil
Percent Solids: 83.20	Prep Method: EPA 5035A	File ID: A10484.D
Prep Batch: B6L0515	Sequence: S6L0509	Analyzed: 12/05/16 20:11
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85 <i>J</i>	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND <i>uJ</i>	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-05  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.927	1.85	U
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>WJ</i>	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-05  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND <i>UJ</i>	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.12	2.24	U
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>MS</i>	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U
	<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>		
	1,2-Dichloroethane-d4	120%	70-130		
	Toluene-d8	99%	70-130		
	Bromofluorobenzene	87%	70-130		

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602246-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59 J	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND UJ	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-40**  
 Lab Sample ID: **1602245-07**  
 Project: **255 East 138th Street**  
 Work Order: **1602246**

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.933	1.87	U
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>UJ</i>	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602245-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-2**  
 Lab Sample ID: **1602245-08**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2 JS	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND US	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-2**  
 Lab Sample ID: **1602245-08**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.926	1.85	U
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>MS</i>	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U





**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-2  
**Lab Sample ID:** 1602245-08  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND <i>u5</i>	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-34**  
 Lab Sample ID: **1602245-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.9	210	U
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND <i>uJ</i>	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	



**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-34**  
 Lab Sample ID: **1602245-01**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	<del>ND</del> R	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643 J	41.9	210	
207-08-9	Benzo[k]fluoranthene	198 J	41.9	210	J
50-32-8	Benzo[a]pyrene	386 J	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5 J	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	<del>ND</del> R	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9 J	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-35**  
 Lab Sample ID: **1602245-02**  
 Project: **265 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND <i>MS</i>	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U



## ANALYSIS DATA SHEET

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	43.4	218	U
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND <i>US</i>	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	



**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-35**  
 Lab Sample ID: **1602245-02**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130



## ANALYSIS DATA SHEET

### EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND <i>US</i>	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U





**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-36**  
 Lab Sample ID: **1602245-03**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.9	210	U
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND <i>WJ</i>	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	



**ANALYSIS DATA SHEET**  
EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

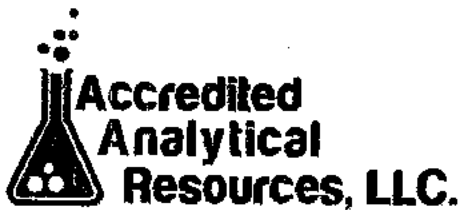


**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-37**  
 Lab Sample ID: **1602245-04**  
 Project: **256 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND <i>US</i>	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-37**  
 Lab Sample ID: **1602245-04**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.6	209	U
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND <i>UJ</i>	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	

*mve 12/18/16*



**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-37**  
 Lab Sample ID: **1602245-04**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-38**  
 Lab Sample ID: **1602245-05**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND <i>MS</i>	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-38**  
 Lab Sample ID: **1602245-05**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	40.0	201	U
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND <i>u.s.</i>	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U

*mhp 12/18/16*



**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-38**  
 Lab Sample ID: **1602245-05**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130





**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND <i>u5</i>	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	4470	40.7	204	
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND <i>u.s</i>	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	ND R	101	204	U
56-55-3	Benzo[a]anthracene	21900 J	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	ND R	40.7	204	U
218-01-9	Chrysene	14400 J	40.7	204	E
117-84-0	Di-n-octyl phthalate	ND R	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900 J	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450 J	40.7	204	E
50-32-8	Benzo[a]pyrene	15600 J	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760 J	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360 J	40.7	204	
191-24-2	Benzo[ghi]perylene	3780 J	40.7	204	

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	66%	30-130
Phenol-d5	74%	30-130
Nitrobenzene-d5	88%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	96%	30-130
Terphenyl-d14	206%	30-130

MKP 12/18/16



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06RE1**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND <i>WJ</i>	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06RE1**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	4970	813	4080	D
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND <i>US</i>	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-39**  
 Lab Sample ID: **1602245-06RE1**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	<del>ND</del> R	2030	4080	U
56-55-3	Benzo[a]anthracene	19800 J	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	<del>ND</del> R	813	4080	U
218-01-9	Chrysene	18900 J	813	4080	D
117-84-0	Di-n-octyl phthalate	<del>ND</del> R	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500 J	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260 J	813	4080	D
50-32-8	Benzo[a]pyrene	15700 J	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770 J	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	<del>ND</del> R	813	4080	U
191-24-2	Benzo[ghi]perylene	4660 J	813	4080	D

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	73%	30-130
Phenol-d5	82%	30-130
Nitrobenzene-d5	83%	30-130
2-Fluorobiphenyl	86%	30-130
2,4,6-Tribromophenol	78%	30-130
Terphenyl-d14	219%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Client Sample ID: EP-40  
 Lab Sample ID: 1602246-07  
 Project: 266 East 138th Street  
 Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND <i>UJ</i>	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Client Sample ID: EP-40  
 Lab Sample ID: 1602245-07  
 Project: 255 East 138th Street  
 Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	38.2	192	U
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND <i>MS</i>	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U





**ANALYSIS DATA SHEET  
EPA 8270**

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **EP-40**  
 Lab Sample ID: **1602245-07**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-2**  
 Lab Sample ID: **1602245-08**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND <i>u5</i>	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-2**  
 Lab Sample ID: **1602245-08**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	38.7	194	U
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND <i>WJ</i>	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J



**ANALYSIS DATA SHEET**  
EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **DUP-2**  
 Lab Sample ID: **1602245-08**  
 Project: **255 East 138th Street**  
 Work Order: **1602245**

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	3.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit





## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC (Lindane)	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC (Lindane)	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-05  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-3	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602245-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602245-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-2  
**Lab Sample ID:** 1602245-08  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-2  
**Lab Sample ID:** 1602245-08  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:15	Matrix: Soil
Percent Solids: 79.40	File ID: 120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600 J	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-8	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275 J	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

MVP 12/18/16



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:24	Matrix: Soil
Percent Solids: 76.70	File ID: 120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100 J	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283 J	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

MXT 12/16/16



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHÖFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:32	Matrix: Soil
Percent Solids: 79.40	File ID: 120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000 J	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227 J	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-86-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

mvr 12/18/16



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:40	Matrix: Soil
Percent Solids: 80.00	File ID: 120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200 J	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279 J	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-05  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:55	Matrix: Soil
Percent Solids: 83.20	File ID: 120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500 <sup>♣</sup>	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126 <sup>♣</sup>	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

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E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:05	Matrix: Soil
Percent Solids: 81.90	File ID: 120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300 J	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239 J	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

\* Values outside of QC limits

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U - Indicates compound analyzed for but not detected

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E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602245-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:10	Matrix: Soil
Percent Solids: 87.10	File ID: 120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890 J	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129 J	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-2  
**Lab Sample ID:** 1602245-08  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:20	Matrix: Soil
Percent Solids: 86.10	File ID: 120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600 ✓	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138 ✓	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-34  
**Lab Sample ID:** 1602245-01  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:15	Matrix: Soil
Percent Solids: 79.40	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7195A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-35  
**Lab Sample ID:** 1602245-02  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:24	Matrix: Soil
Percent Solids: 76.70	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-36  
**Lab Sample ID:** 1602245-03  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:32	Matrix: Soil
Percent Solids: 79.40	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

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RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-37  
**Lab Sample ID:** 1602245-04  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:40	Matrix: Soil
Percent Solids: 80.00	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-38  
**Lab Sample ID:** 1602245-05  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 14:55	Matrix: Soil
Percent Solids: 83.20	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

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## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-39  
**Lab Sample ID:** 1602245-06  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:05	Matrix: Soil
Percent Solids: 81.90	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

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## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-40  
**Lab Sample ID:** 1602245-07  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:10	Matrix: Soil
Percent Solids: 87.10	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** DUP-2  
**Lab Sample ID:** 1602245-08  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Date Sampled: 12/02/16 15:20	Matrix: Soil
Percent Solids: 86.10	File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

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***Appendix B***

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***Laboratory  
QC  
Documentation***



## ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6L0614-BLK1	File ID:	A10495.D
Batch:	B6L0614	Prepared:	12/06/16 10:36	Analyzed:	12/06/16 10:36
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6L0607	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	3.28	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-34

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street  
 Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B6L0614	Prep Method:	EPA 5035A
Percent Solids:	79.40	Laboratory ID:	B6L0614-MS1
		Client Sample ID:	1602245-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	63.0	ND	62.3	99	70 - 130
Trichloroethene	63.0	ND	61.0	97	70 - 130
Methylcyclohexane	63.0	ND	55.8	89	70 - 130
1,2-Dichloropropane	63.0	ND	64.7	103	70 - 130
Bromodichloromethane	63.0	ND	65.8	105	70 - 130
Dibromomethane	63.0	ND	66.4	106	70 - 130
2-Chloroethyl vinyl ether	63.0	ND	105	166 *	40 - 160
cis-1,3-Dichloropropene	63.0	ND	64.2	102	70 - 130
Toluene	63.0	ND	60.7	96	70 - 130
trans-1,3-Dichloropropene	63.0	ND	63.6	101	70 - 130
1,1,2-Trichloroethane	63.0	ND	63.8	101	70 - 130
4-Methyl-2-pentanone	63.0	ND	66.0	105	40 - 160
1,2-Dibromoethane	63.0	ND	62.6	99	70 - 130
2-Hexanone	63.0	ND	56.1	89	40 - 160
1,3-Dichloropropane	63.0	ND	63.9	101	70 - 130
Tetrachloroethene	63.0	ND	61.1	97	70 - 130
Dibromochloromethane	63.0	ND	67.3	107	70 - 130
Ethylbenzene	63.0	ND	60.8	97	70 - 130
Chlorobenzene	63.0	ND	61.3	97	70 - 130
1,1,1,2-Tetrachloroethane	63.0	ND	63.7	101	70 - 130
m,p-Xylenes	126	ND	122	97	70 - 130
o-Xylene	126	ND	127	101	70 - 130
Styrene	126	ND	125	99	70 - 130
Bromoform	63.0	ND	60.2	96	70 - 130
Isopropylbenzene	63.0	ND	61.0	97	70 - 130
1,1,2,2-Tetrachloroethane	63.0	ND	64.8	103	70 - 130
1,2,3-Trichloropropane	63.0	ND	68.9	109	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-34

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street  
 Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B6L0614	Prep Method:	EPA 5035A
Percent Solids:	79.40	Laboratory ID:	B6L0614-MSD1
		Client Sample ID:	1602245-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
n-Propyl Benzene	63.0	59.4	94	0.08	30	70 - 130
Bromobenzene	63.0	67.7	106	8	30	70 - 130
1,3,5-Trimethylbenzene	63.0	61.9	98	0.6	30	70 - 130
2-Chlorotoluene	63.0	61.7	98	3	30	70 - 130
4-Chlorotoluene	63.0	62.2	99	5	30	70 - 130
tert-Butylbenzene	63.0	60.3	96	1	30	70 - 130
1,2,4-Trimethylbenzene	63.0	60.7	96	1	30	70 - 130
sec-Butylbenzene	63.0	54.7	87	4	30	70 - 130
p-Isopropyltoluene	63.0	56.6	90	3	30	70 - 130
1,3-Dichlorobenzene	63.0	60.7	96	2	30	70 - 130
1,4-Dichlorobenzene	63.0	59.4	94	0.9	30	70 - 130
n-Butyl Benzene	63.0	54.3	86	5	30	70 - 130
1,2-Dichlorobenzene	63.0	60.6	96	1	30	70 - 130
1,2-Dibromo-3-chloropropane	63.0	70.4	112	10	30	40 - 160
1,2,4-Trichlorobenzene	63.0	51.9	82	3	30	70 - 130
Hexachlorobutadiene	63.0	41.8	66	12	30	70 - 130
Naphthalene	63.0	57.9	90	3	30	40 - 160
1,2,3-Trichlorobenzene	63.0	51.4	82	2	30	70 - 130
Methyl tert-Butyl Ether	126	152	121	20	30	70 - 130





## LCS / LCS DUPLICATE RECOVERY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B6L0515	Lab Sample ID:	B6L0515-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	46.4	93	70 - 130
Methylcyclohexane	50.0	48.0	96	70 - 130
1,2-Dichloropropane	50.0	48.5	97	70 - 130
Bromodichloromethane	50.0	50.3	101	70 - 130
Dibromomethane	50.0	49.3	99	70 - 130
2-Chloroethyl vinyl ether	50.0	87.4	175 *	40 - 160
cis-1,3-Dichloropropene	50.0	49.9	100	70 - 130
Toluene	50.0	47.4	95	70 - 130
trans-1,3-Dichloropropene	50.0	51.2	102	70 - 130
1,1,2-Trichloroethane	50.0	49.0	98	70 - 130
4-Methyl-2-pentanone	50.0	50.8	102	40 - 160
1,2-Dibromoethane	50.0	50.0	100	70 - 130
2-Hexanone	50.0	40.1	80	40 - 160
1,3-Dichloropropane	50.0	48.2	96	70 - 130
Tetrachloroethene	50.0	45.8	92	70 - 130
Dibromochloromethane	50.0	49.8	100	70 - 130
Ethylbenzene	50.0	46.3	93	70 - 130
Chlorobenzene	50.0	46.7	93	70 - 130
1,1,1,2-Tetrachloroethane	50.0	47.3	95	70 - 130
m,p-Xylenes	100	92.8	93	70 - 130
o-Xylene	100	96.9	97	70 - 130
Styrene	100	98.1	98	70 - 130
Bromoform	50.0	48.5	97	70 - 130
Isopropylbenzene	50.0	47.0	94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5	103	70 - 130
1,2,3-Trichloropropane	50.0	51.6	103	70 - 130
n-Propyl Benzene	50.0	46.2	92	70 - 130
Bromobenzene	50.0	48.2	96	70 - 130



## LCS / LCS DUPLICATE RECOVERY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

<b>Matrix:</b>	Solid	<b>Prep Method:</b>	EPA 5035A
<b>Prep Batch:</b>	B6L0614	<b>Lab Sample ID:</b>	B6L0614-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	49.5	99	70 - 130
Methylcyclohexane	50.0	50.4	101	70 - 130
1,2-Dichloropropane	50.0	49.1	98	70 - 130
Bromodichloromethane	50.0	52.0	104	70 - 130
Dibromomethane	50.0	50.8	102	70 - 130
2-Chloroethyl vinyl ether	50.0	97.9	196	40 - 160
cis-1,3-Dichloropropene	50.0	48.9	98	70 - 130
Toluene	50.0	48.2	96	70 - 130
trans-1,3-Dichloropropene	50.0	49.2	98	70 - 130
1,1,2-Trichloroethane	50.0	49.1	98	70 - 130
4-Methyl-2-pentanone	50.0	47.7	95	40 - 160
1,2-Dibromoethane	50.0	48.7	97	70 - 130
2-Hexanone	50.0	38.8	78	40 - 160
1,3-Dichloropropane	50.0	48.2	96	70 - 130
Tetrachloroethene	50.0	49.2	98	70 - 130
Dibromochloromethane	50.0	49.4	99	70 - 130
Ethylbenzene	50.0	48.8	98	70 - 130
Chlorobenzene	50.0	48.8	98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.2	100	70 - 130
m,p-Xylenes	100	98.3	98	70 - 130
o-Xylene	100	102	102	70 - 130
Styrene	100	102	102	70 - 130
Bromoform	50.0	47.7	95	70 - 130
Isopropylbenzene	50.0	47.8	96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.7	93	70 - 130
1,2,3-Trichloropropane	50.0	47.8	96	70 - 130
n-Propyl Benzene	50.0	47.6	95	70 - 130
Bromobenzene	50.0	47.8	96	70 - 130



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0509

Instrument: GC/MS A  
 Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>EP-35 (1602245-02)</b>			<i>Lab File ID: A10481.D</i>		<i>Analyzed: 12/05/16 18:37</i>				
Pentafluorobenzene	686179	6.4	898975	6.4	76	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1164701	7.11	1555360	7.11	75	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	787231	11.21	1268861	11.21	62	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	273170	16.73	587683	16.74	46	50 - 200	-0.0100	+/-0.50	*
<b>EP-36 (1602245-03)</b>			<i>Lab File ID: A10482.D</i>		<i>Analyzed: 12/05/16 19:09</i>				
Pentafluorobenzene	649223	6.4	898975	6.4	72	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1103510	7.11	1555360	7.11	71	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	749932	11.2	1268861	11.21	59	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	268980	16.74	587683	16.74	46	50 - 200	0.0000	+/-0.50	*
<b>EP-37 (1602245-04)</b>			<i>Lab File ID: A10483.D</i>		<i>Analyzed: 12/05/16 19:40</i>				
Pentafluorobenzene	634357	6.4	898975	6.4	71	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1084759	7.1	1555360	7.11	70	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	703762	11.2	1268861	11.21	55	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	248019	16.72	587683	16.74	42	50 - 200	-0.0200	+/-0.50	*
<b>EP-38 (1602245-05)</b>			<i>Lab File ID: A10484.D</i>		<i>Analyzed: 12/05/16 20:11</i>				
Pentafluorobenzene	866807	6.4	898975	6.4	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1476526	7.11	1555360	7.11	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1148450	11.21	1268861	11.21	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	450184	16.72	587683	16.74	77	50 - 200	-0.0200	+/-0.50	
<b>EP-40 (1602245-07)</b>			<i>Lab File ID: A10486.D</i>		<i>Analyzed: 12/05/16 21:14</i>				
Pentafluorobenzene	756441	6.4	898975	6.4	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1311666	7.1	1555360	7.11	84	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1032548	11.2	1268861	11.21	81	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	397170	16.72	587683	16.74	68	50 - 200	-0.0200	+/-0.50	



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0607

Instrument: GC/MS A  
 Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>EP-34 (1602245-01)</b>			<i>Lab File ID: A10500.D</i>		<i>Analyzed: 12/06/16 13:28</i>				
Pentafluorobenzene	768417	6.4	868869	6.4	88	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1274746	7.11	1430366	7.09	89	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	997060	11.21	1200524	11.2	83	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	417774	16.73	572433	16.72	73	50 - 200	0.0100	+/-0.50	
<b>EP-35 (1602245-02RE1)</b>			<i>Lab File ID: A10505.D</i>		<i>Analyzed: 12/06/16 16:04</i>				
Pentafluorobenzene	556986	6.42	868869	6.4	64	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	949644	7.11	1430366	7.09	66	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	674269	11.21	1200524	11.2	56	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	243667	16.74	572433	16.72	43	50 - 200	0.0200	+/-0.50	*
<b>EP-37 (1602245-04RE1)</b>			<i>Lab File ID: A10506.D</i>		<i>Analyzed: 12/06/16 20:51</i>				
Pentafluorobenzene	393999	6.46	868869	6.4	45	50 - 200	0.0600	+/-0.50	*
1,4-Difluorobenzene	666478	7.15	1430366	7.09	47	50 - 200	0.0600	+/-0.50	*
Chlorobenzene-d5	353228	11.22	1200524	11.2	29	50 - 200	0.0200	+/-0.50	*
1,4-Dichlorobenzene-d4	117824	16.75	572433	16.72	21	50 - 200	0.0300	+/-0.50	*

\* Values outside of QC limits



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0708

Instrument: GC/MS A  
 Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S6L0708-CCV1)</b>			<i>Lab File ID: A10519.D</i>		<i>Analyzed: 12/07/16 11:33</i>				
Pentafluorobenzene	770467	6.4	892791	6.41	86	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	1265724	7.11	1470675	7.11	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1077003	11.21	1196462	11.21	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	555038	16.74	526650	16.73	105	50 - 200	0.0100	+/-0.50	
<b>Blank (B6L0715-BLK1)</b>			<i>Lab File ID: A10521.D</i>		<i>Analyzed: 12/07/16 12:37</i>				
Pentafluorobenzene	794115	6.4	770467	6.4	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1285660	7.11	1265724	7.11	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1013052	11.21	1077003	11.21	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	462452	16.73	555038	16.74	83	50 - 200	-0.0100	+/-0.50	
<b>EP-39 (1602245-06)</b>			<i>Lab File ID: A10522.D</i>		<i>Analyzed: 12/07/16 13:17</i>				
Pentafluorobenzene	654866	6.4	770467	6.4	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1076776	7.11	1265724	7.11	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	770009	11.21	1077003	11.21	71	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	294546	16.72	555038	16.74	53	50 - 200	-0.0200	+/-0.50	
<b>EP-36 (1602245-03RE1)</b>			<i>Lab File ID: A10523.D</i>		<i>Analyzed: 12/07/16 13:49</i>				
Pentafluorobenzene	571595	6.41	770467	6.4	74	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	920863	7.11	1265724	7.11	73	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	658963	11.21	1077003	11.21	61	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	260039	16.73	555038	16.74	47	50 - 200	-0.0100	+/-0.50	
<b>LCS (B6L0715-BS1)</b>			<i>Lab File ID: A10525.D</i>		<i>Analyzed: 12/07/16 14:59</i>				
Pentafluorobenzene	827456	6.4	770467	6.4	107	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1331299	7.11	1265724	7.11	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1065990	11.21	1077003	11.21	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	504927	16.73	555038	16.74	91	50 - 200	-0.0100	+/-0.50	



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street

Calibration:	16K2902	Instrument:	GC/MS A
		Calibration Date:	11/17/2016 2:24:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	4.390239E-02	2.299134		
Acrylonitrile	0.1147315	4.526438		
Acetone	0.2535901	38.1222		
Dichlorodifluoromethane	0.4112477	17.55926		
Chloromethane	0.7616596	9.875008	SPCC (0.1)	
Vinyl chloride	0.7260558	9.803064	CCC (20)	
Bromomethane	0.4938754	7.050149		
Chloroethane	0.2082682	8.880334		
Trichlorofluoromethane	0.5822394	12.59423		
Freon 113	0.5302295	8.81663		
1,1-Dichloroethene	0.66765	9.913446	CCC (20)	
Carbon disulfide	1.728157	3.823027		
Methyl Acetate	0.2379709	15.84588		
Methylene Chloride	1.154874	84.09013		
trans-1,2-Dichloroethene	0.729265	6.393617		
1,1-Dichloroethane	0.9230035	6.171674	SPCC (0.1)	
Vinyl acetate	0.8582262	6.083762		
2,2-Dichloropropane	0.7228876	5.674502		
2-Butanone	0.2586982	5.496888		
cis-1,2-Dichloroethene	0.7166405	3.805645		
Chloroform	0.8574199	5.180835	CCC (20)	
Bromochloromethane	0.3076896	7.871377		
Cyclohexane	1.023764	2.759858		
1,1,1-Trichloroethane	0.6739373	4.342543		
t-Butyl alcohol	2.531871E-02	6.236099		



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street

Instrument ID: GC/MS A	Calibration: 16K2902
Lab File ID: A10469.D	Calibration Date: 11/17/16 14:24
Sequence: S6L0509	Injection Date: 12/05/16
Lab Sample ID: S6L0509-CCV1	Injection Time: 11:26

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR		% DIFF		LIMIT (#)
		STD	CCV	ICAL	CCV	MIN (#)	CCV	
Acrolein	A	250	272	4.390239E-02	4.773525E-02		8.7	
Acrylonitrile	A	250	273	0.1147315	0.1254698		9.4	
Acetone	L	50.0	49.3	0.2535901	0.2025562		-20.1	
Dichlorodifluoromethane	L	50.0	57.4	0.4112477	0.4509158		9.6	
Chloromethane	A	50.0	55.6	0.7616596	0.8461893	0.1	11.1	
Vinyl chloride	A	50.0	56.4	0.7260558	0.8197247		12.9	20
Bromomethane	A	50.0	59.4	0.4938754	0.5871176		18.9	
Chloroethane	A	50.0	53.3	0.2082682	0.2220618		6.6	
Trichlorofluoromethane	A	50.0	55.0	0.5822394	0.6408977		10.1	
Freon 113	A	50.0	51.1	0.5302295	0.5419194		2.2	
1,1-Dichloroethene	A	50.0	54.0	0.66765	0.7215807		8.1	20
Carbon disulfide	A	50.0	49.5	1.728157	1.711283		-1.0	
Methyl Acetate	A	50.0	46.7	0.2379709	0.2221575		-6.6	
Methylene Chloride	L	50.0	50.7	1.154874	0.7045046		-39.0	
trans-1,2-Dichloroethene	A	50.0	53.5	0.729265	0.7799994		7.0	
1,1-Dichloroethane	A	50.0	53.2	0.9230035	0.9820874	0.1	6.4	
Vinyl acetate	A	50.0	54.3	0.8582262	0.9317222		8.6	
2,2-Dichloropropane	A	50.0	52.5	0.7228876	0.7596674		5.1	
2-Butanone	A	50.0	46.1	0.2586982	0.2384015		-7.8	
cis-1,2-Dichloroethene	A	50.0	53.0	0.7166405	0.7595851		6.0	
Chloroform	A	50.0	52.6	0.8574199	0.9026981		5.3	20
Bromochloromethane	A	50.0	53.7	0.3076896	0.3303596		7.4	
Cyclohexane	A	50.0	51.0	1.023764	1.044532		2.0	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602245**  
 Project: **255 East 138th Street**

Instrument ID: <b>GC/MS A</b>	Calibration: <b>16K2902</b>
Lab File ID: <b>A10469.D</b>	Calibration Date: <b>11/17/16 14:24</b>
Sequence: <b>S6L0509</b>	Injection Date: <b>12/05/16</b>
Lab Sample ID: <b>S6L0509-CCV1</b>	Injection Time: <b>11:26</b>

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR		% DIFF		LIMIT (#)
		STD	CCV	ICAL	CCV	MIN (#)	CCV	
1,1,1-Trichloroethane	A	50.0	53.0	0.6739373	0.7148564		6.1	
t-Butyl alcohol	A	500	552	2.531871E-02	2.793748E-02		10.3	
1,1-Dichloropropene	A	50.0	51.7	0.1609198	0.1665286		3.5	
Carbon Tetrachloride	A	50.0	52.0	0.3095547	0.3222469		4.1	
1,2-Dichloroethane	A	50.0	51.2	0.2477842	0.2539354		2.5	
Benzene	A	50.0	50.6	1.262459	1.277001		1.2	
Trichloroethene	A	50.0	51.4	0.3212095	0.330301		2.8	
Methylcyclohexane	A	50.0	50.7	0.5829516	0.5915029		1.5	
1,2-Dichloropropane	A	50.0	53.3	0.3125476	0.333148		6.6	20
Bromodichloromethane	A	50.0	53.9	0.3315819	0.3575982		7.8	
Dibromomethane	A	50.0	52.6	0.1488103	0.1566911		5.3	
2-Chloroethyl vinyl ether	Q	50.0	82.1	0.0410119	5.023853E-02		22.5	
cis-1,3-Dichloropropene	A	50.0	55.1	0.44799	0.493325		10.1	
Toluene	A	50.0	51.4	1.275213	1.310002		2.7	20
trans-1,3-Dichloropropene	A	50.0	54.8	0.3402997	0.3731368		9.6	
1,1,2-Trichloroethane	A	50.0	52.8	0.2048281	0.2163731		5.6	
4-Methyl-2-pentanone	A	50.0	51.4	0.19455	0.1998766		2.7	
1,2-Dibromoethane	A	50.0	53.4	0.205043	0.2190155		6.8	
2-Hexanone	A	50.0	46.4	0.2526917	0.2344079		-7.2	
1,3-Dichloropropane	A	50.0	51.4	0.4703389	0.4837291		2.8	
Tetrachloroethene	A	50.0	49.1	0.4110747	0.4036076		-1.8	
Dibromochloromethane	A	50.0	55.3	0.276114	0.3051501		10.5	
Ethylbenzene	A	50.0	51.9	1.765083	1.831458		3.8	20





## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602245**  
 Project: **255 East 138th Street**

Instrument ID: GC/MS A	Calibration: 16K2902
Lab File ID: A10493.D	Calibration Date: 11/17/16 14:24
Sequence: S6L0607	Injection Date: 12/06/16
Lab Sample ID: S6L0607-CCV1	Injection Time: 09:31

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	251	4.390239E-02	4.399167E-02		0.2	
Acrylonitrile	A	250	256	0.1147315	0.1175188		2.4	
Acetone	L	50.0	42.3	0.2535901	0.1753682		-30.8	
Dichlorodifluoromethane	L	50.0	50.3	0.4112477	0.401141		-2.5	
Chloromethane	A	50.0	56.8	0.7616596	0.8649773	0.1	13.6	
Vinyl chloride	A	50.0	58.4	0.7260558	0.8478217		16.8	20
Bromomethane	A	50.0	58.8	0.4938754	0.58058		17.6	
Chloroethane	A	50.0	55.2	0.2082682	0.2297239		10.3	
Trichlorofluoromethane	A	50.0	57.5	0.5822394	0.670055		15.1	
Freon 113	A	50.0	51.5	0.5302295	0.5465841		3.1	
1,1-Dichloroethene	A	50.0	51.6	0.66765	0.6890694		3.2	20
Carbon disulfide	A	50.0	48.4	1.728157	1.671212		-3.3	
Methyl Acetate	A	50.0	47.1	0.2379709	0.2241109		-5.8	
Methylene Chloride	L	50.0	56.0	1.154874	0.767744		-33.5	
trans-1,2-Dichloroethene	A	50.0	53.3	0.729265	0.7778319		6.7	
1,1-Dichloroethane	A	50.0	52.2	0.9230035	0.9634893	0.1	4.4	
Vinyl acetate	A	50.0	52.3	0.8582262	0.8973781		4.6	
2,2-Dichloropropane	A	50.0	53.2	0.7228876	0.7689226		6.4	
2-Butanone	A	50.0	40.8	0.2586982	0.2112505		-18.3	
cis-1,2-Dichloroethene	A	50.0	53.0	0.7166405	0.759279		5.9	
Chloroform	A	50.0	52.4	0.8574199	0.8978143		4.7	20
Bromochloromethane	A	50.0	52.9	0.3076896	0.3254277		5.8	
Cyclohexane	A	50.0	49.5	1.023764	1.014193		-0.9	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602245**  
 Project: **255 East 138th Street**

Instrument ID: **GC/MS A**

Calibration: **16K2902**

Lab File ID: **A10493.D**

Calibration Date: **11/17/16 14:24**

Sequence: **S6L0607**

Injection Date: **12/06/16**

Lab Sample ID: **S6L0607-CCV1**

Injection Time: **09:31**

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	52.9	0.6739373	0.7130361		5.8	
t-Butyl alcohol	A	500	519	2.531871E-02	2.629211E-02		3.8	
1,1-Dichloropropene	A	50.0	54.7	0.1609198	0.1761109		9.4	
Carbon Tetrachloride	A	50.0	53.9	0.3095547	0.3338125		7.8	
1,2-Dichloroethane	A	50.0	54.3	0.2477842	0.2693122		8.7	
Benzene	A	50.0	52.6	1.262459	1.328667		5.2	
Trichloroethene	A	50.0	53.1	0.3212095	0.3410547		6.2	
Methylcyclohexane	A	50.0	52.8	0.5829516	0.6155334		5.6	
1,2-Dichloropropane	A	50.0	54.6	0.3125476	0.3410288		9.1	20
Bromodichloromethane	A	50.0	55.3	0.3315819	0.3665118		10.5	
Dibromomethane	A	50.0	54.8	0.1488103	0.1631485		9.6	
2-Chloroethyl vinyl ether	Q	50.0	81.3	0.0410119	4.954396E-02		20.8	
cis-1,3-Dichloropropene	A	50.0	55.1	0.44799	0.4933472		10.1	
Toluene	A	50.0	52.9	1.275213	1.348623		5.8	20
trans-1,3-Dichloropropene	A	50.0	55.6	0.3402997	0.3782018		11.1	
1,1,2-Trichloroethane	A	50.0	54.6	0.2048281	0.2237057		9.2	
4-Methyl-2-pentanone	A	50.0	50.8	0.19455	0.1977347		1.6	
1,2-Dibromoethane	A	50.0	53.7	0.205043	0.2201059		7.3	
2-Hexanone	A	50.0	44.2	0.2526917	0.2231725		-11.7	
1,3-Dichloropropane	A	50.0	50.5	0.4703389	0.4750509		1.0	
Tetrachloroethene	A	50.0	51.2	0.4110747	0.4208146		2.4	
Dibromochloromethane	A	50.0	54.1	0.276114	0.2986271		8.2	
Ethylbenzene	A	50.0	51.5	1.765083	1.818813		3.0	20



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602245**  
 Project: **255 East 138th Street**

Instrument ID: <b>GC/MS A</b>	Calibration: <b>16K2902</b>
Lab File ID: <b>A10519.D</b>	Calibration Date: <b>11/17/16 14:24</b>
Sequence: <b>S6L0708</b>	Injection Date: <b>12/07/16</b>
Lab Sample ID: <b>S6L0708-CCV1</b>	Injection Time: <b>11:33</b>

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	233	4.390239E-02	4.085522E-02		-6.9	
Acrylonitrile	A	250	242	0.1147315	0.1108445		-3.4	
Acetone	L	50.0	44.7	0.2535901	0.1848879		-27.1	
Dichlorodifluoromethane	L	50.0	54.9	0.4112477	0.4334761		5.4	
Chloromethane	A	50.0	54.3	0.7616596	0.8272178	0.1	8.6	
Vinyl chloride	A	50.0	55.3	0.7260558	0.802412		10.5	20
Bromomethane	A	50.0	54.8	0.4938754	0.541347		9.6	
Chloroethane	A	50.0	52.2	0.2082682	0.2173124		4.3	
Trichlorofluoromethane	A	50.0	58.7	0.5822394	0.6834764		17.4	
Freon 113	A	50.0	51.3	0.5302295	0.5439169		2.6	
1,1-Dichloroethene	A	50.0	51.9	0.66765	0.6933574		3.9	20
Carbon disulfide	A	50.0	44.8	1.728157	1.546569		-10.5	
Methyl Acetate	A	50.0	45.7	0.2379709	0.217411		-8.6	
Methylene Chloride	L	50.0	50.9	1.154874	0.706443		-38.8	
trans-1,2-Dichloroethene	A	50.0	52.5	0.729265	0.7652956		4.9	
1,1-Dichloroethane	A	50.0	51.5	0.9230035	0.9509934	0.1	3.0	
Vinyl acetate	A	50.0	49.3	0.8582262	0.8466683		-1.3	
2,2-Dichloropropane	A	50.0	52.5	0.7228876	0.7584945		4.9	
2-Butanone	A	50.0	40.4	0.2586982	0.2090278		-19.2	
cis-1,2-Dichloroethene	A	50.0	50.9	0.7166405	0.7296172		1.8	
Chloroform	A	50.0	51.8	0.8574199	0.8885014		3.6	20
Bromochloromethane	A	50.0	53.2	0.3076896	0.3272885		6.4	
Cyclohexane	A	50.0	45.9	1.023764	0.9405646		-8.1	



**SYSTEM MONITORING COMPOUND SUMMARY**

**EPA 8270**

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

**Matrix:** Solid  
**Instrument:** GC/MS B

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NEZ (30% - 130%)	FHL (30% - 130%)	TBP (30% - 130%)	TFH (30% - 130%)
1602245-01	54	71	73	64	74	89
1602245-02	43	52	52	47	67	64
1602245-03	44	51	52	49	68	61
1602245-04	51	58	60	57	69	61
1602245-05	55	61	64	60	69	70
1602245-06	66	79	88	74	96	206*
1602245-06RE1	73	86	83	82	78	219*
1602245-07	52	58	60	56	67	64
1602245-08	51	58	59	55	69	64
B6L0503-BLK1	52	58	60	56	66	73
B6L0503-BS1	53	62	62	58	76	65
B6L0503-MS1	64	81	80	70	104	86
B6L0503-MSD1	59	79	76	66	102	90



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MS1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Anthracene	2080	92.2	2340	108	70 - 130
Di-n-butyl phthalate	2080	ND	2240	108	70 - 130
Fluoranthene	2080	530	3420	139	* 70 - 130
Pyrene	2080	407	2810	115	70 - 130
Butylbenzylphthalate	2080	ND	2030	98	70 - 130
Benzo[a]anthracene	2080	209	2660	117	70 - 130
bis(2-ethylhexyl)phthalate	2080	ND	2100	101	70 - 130
Chrysene	2080	218	2640	116	70 - 130
Di-n-octyl phthalate	2080	ND	2660	128	70 - 130
Benzo[b]fluoranthene	2080	256	3590	160	* 70 - 130
Benzo[k]fluoranthene	2080	85.6	2390	111	70 - 130
Benzo[a]pyrene	2080	202	2760	123	70 - 130
Indeno(1,2,3-cd)pyrene	2080	72.1	1290	59	* 70 - 130
Dibenzo(a,h)anthracene	2080	ND	1330	64	* 70 - 130
Benzo[ghi]perylene	2080	70.6	1010	45	* 70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street  
 Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MSD1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Hexachlorocyclopentadiene	2080	1470	71	20	30	20 - 160
2,4,6-Trichlorophenol	2080	2060	99	0.5	30	70 - 130
2,4,5-Trichlorophenol	2080	2160	104	1	30	70 - 130
2-Chloronaphthalene	2080	2050	98	1	30	70 - 130
2-Nitroaniline	2080	1990	95	2	30	70 - 130
Dimethylphthalate	2080	2150	103	2	30	70 - 130
Acenaphthylene	2080	2060	99	0.8	30	70 - 130
3-Nitroaniline	2080	1430	68	3	30	70 - 130
Acenaphthene	2080	2090	100	2	30	70 - 130
2,4-Dinitrophenol	2080	1150	55	1	30	20 - 160
4-Nitrophenol	2080	2600	125	2	30	20 - 160
Dibenzofuran	2080	2230	107	3	30	70 - 130
2,6-Dinitrotoluene	2080	2050	99	0.8	30	70 - 130
2,4-Dinitrotoluene	2080	2290	110	1	30	70 - 130
2,3,4,6-Tetrachlorophenol	2080	2310	111	0.9	30	70 - 130
Diethyl phthalate	2080	2270	109	0.2	30	70 - 130
4-Chlorophenyl-phenylether	2080	2280	109	1	30	70 - 130
Fluorene	2080	2320	109	2	30	70 - 130
4-Nitroaniline	2080	2090	100	2	30	70 - 130
4,6-Dinitro-2-methylphenol	2080	1790	86	3	30	70 - 130
Carbazole	2080	2400	115	5	30	70 - 130
N-Nitrosodiphenylamine	2080	2100	101	2	30	20 - 160
Azobenzene	2080	2080	100	1	30	70 - 130
4-Bromophenyl-phenylether	2080	2270	109	3	30	70 - 130
Hexachlorobenzene	2080	2350	113	3	30	70 - 130
Pentachlorophenol	2080	2310	111	4	30	20 - 160
Phenanthrene	2080	3410	143	16	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MSD1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Anthracene	2080	2500	115	6	30	70 - 130
Di-n-butyl phthalate	2080	2290	110	2	30	70 - 130
Fluoranthene	2080	3950	164 *	15	30	70 - 130
Pyrene	2080	3240	136 *	14	30	70 - 130
Butylbenzylphthalate	2080	2130	102	5	30	70 - 130
Benzo[a]anthracene	2080	2850	127	7	30	70 - 130
bis(2-ethylhexyl)phthalate	2080	2160	104	3	30	70 - 130
Chrysene	2080	2820	125	7	30	70 - 130
Di-n-octyl phthalate	2080	3170	152 *	17	30	70 - 130
Benzo[b]fluoranthene	2080	4130	186 *	14	30	70 - 130
Benzo[k]fluoranthene	2080	4300	202 *	57 *	30	70 - 130
Benzo[a]pyrene	2080	3000	134 *	8	30	70 - 130
Indeno(1,2,3-cd)pyrene	2080	1180	53 *	9	30	70 - 130
Dibenzo(a,h)anthracene	2080	1180	57 *	12	30	70 - 130
Benzo[ghi]perylene	2080	923	41 *	9	30	70 - 130



## LCS / LCS DUPLICATE RECOVERY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6L0503	Lab Sample ID:	B6L0503-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	911	55	20 - 160
N-Nitrosodimethylamine	1670	1070	64	20 - 160
Aniline	1670	1120	67	20 - 160
Phenol	1670	1180	71	20 - 160
bis(2-chloroethyl)ether	1670	1190	71	70 - 130
2-Chlorophenol	1670	1220	73	70 - 130
1,3-Dichlorobenzene	1670	1190	71	70 - 130
1,4-Dichlorobenzene	1670	1200	72	70 - 130
Benzyl alcohol	1670	1270	76	20 - 160
1,2-Dichlorobenzene	1670	1220	73	70 - 130
2-Methylphenol	1670	1210	73	20 - 160
bis(2-chloroisopropyl)ether	1670	1220	73	70 - 130
3 & 4-Methylphenol	1670	1270	76	20 - 160
N-Nitroso-di-n-propylamine	1670	1260	75	70 - 130
Hexachloroethane	1670	1200	72	20 - 160
Nitrobenzene	1670	1170	70	70 - 130
Isophorone	1670	1180	71	70 - 130
2-Nitrophenol	1670	1170	70	70 - 130
2,4-Dimethylphenol	1670	1230	74	70 - 130
bis(2-chloroethoxy)methane	1670	1160	70	70 - 130
2,4-Dichlorophenol	1670	1230	74	70 - 130
1,2,4-Trichlorobenzene	1670	1200	72	70 - 130
Naphthalene	1670	1200	72	70 - 130
4-Chloroaniline	1670	871	52	70 - 130
Hexachlorobutadiene	1670	1280	77	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1290	77	70 - 130
Hexachlorocyclopentadiene	1670	1400	84	20 - 160





## LCS / LCS DUPLICATE RECOVERY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street  
**Work Order:** 1602245

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6L0503	Lab Sample ID:	B6L0503-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1260	76	70 - 130
2,4,5-Trichlorophenol	1670	1290	78	70 - 130
2-Chloronaphthalene	1670	1270	76	70 - 130
2-Nitroaniline	1670	1240	74	70 - 130
Dimethylphthalate	1670	1320	79	70 - 130
Acenaphthylene	1670	1250	75	70 - 130
3-Nitroaniline	1670	1110	66 *	70 - 130
Acenaphthene	1670	1210	72	70 - 130
2,4-Dinitrophenol	1670	1250	75	20 - 160
4-Nitrophenol	1670	1530	92	20 - 160
Dibenzofuran	1670	1290	77	70 - 130
2,6-Dinitrotoluene	1670	1270	76	70 - 130
2,4-Dinitrotoluene	1670	1360	81	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1360	82	70 - 130
Diethyl phthalate	1670	1350	81	70 - 130
4-Chlorophenyl-phenylether	1670	1340	81	70 - 130
Fluorene	1670	1300	78	70 - 130
4-Nitroaniline	1670	1290	77	70 - 130
4,6-Dinitro-2-methylphenol	1670	1440	87	70 - 130
Carbazole	1670	1330	80	70 - 130
N-Nitrosodiphenylamine	1670	1270	76	20 - 160
Azobenzene	1670	1270	76	70 - 130
4-Bromophenyl-phenylether	1670	1370	82	70 - 130
Hexachlorobenzene	1670	1380	83	70 - 130
Pentachlorophenol	1670	1340	80	20 - 160
Phenanthrene	1670	1290	78	70 - 130
Anthracene	1670	1310	79	70 - 130
Di-n-butyl phthalate	1670	1360	81	70 - 130



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0506

Instrument: GC/MS B  
 Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Matrix Spike (B6L0503-MS1)</b>			<i>Lab File ID: B4286.D</i>		<i>Analyzed: 12/05/16 18:07</i>				
1,4-Dichlorobenzene-d4	162874	10.03	146142	10.03	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	651275	13.22	594738	13.22	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	353823	17.72	325338	17.73	109	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	573292	21.52	499587	21.52	115	50 - 200	0.0000	+/-0.50	
Chrysene-d12	618694	28.35	562328	28.35	110	50 - 200	0.0000	+/-0.50	
Perylene-d12	456457	31.73	541630	31.74	84	50 - 200	-0.0100	+/-0.50	
<b>Matrix Spike Dup (B6L0503-MSD1)</b>			<i>Lab File ID: B4287.D</i>		<i>Analyzed: 12/05/16 18:52</i>				
1,4-Dichlorobenzene-d4	162815	10.03	146142	10.03	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	657052	13.22	594738	13.22	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	359309	17.72	325338	17.73	110	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	571799	21.52	499587	21.52	114	50 - 200	0.0000	+/-0.50	
Chrysene-d12	604088	28.36	562328	28.35	107	50 - 200	0.0100	+/-0.50	
Perylene-d12	379943	31.72	541630	31.74	70	50 - 200	-0.0200	+/-0.50	
<b>EP-39 (1602245-06)</b>			<i>Lab File ID: B4288.D</i>		<i>Analyzed: 12/05/16 19:36</i>				
1,4-Dichlorobenzene-d4	167614	10.02	146142	10.03	115	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	627291	13.23	594738	13.22	105	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	397714	17.71	325338	17.73	122	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	440081	21.59	499587	21.52	88	50 - 200	0.0700	+/-0.50	
Chrysene-d12	233730	28.5	562328	28.35	42	50 - 200	0.1500	+/-0.50	*
Perylene-d12	57792	31.73	541630	31.74	11	50 - 200	-0.0100	+/-0.50	*



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0506

Instrument: GC/MS B  
 Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>EP-34 (1602245-01)</b>			<i>Lab File ID: B4289.D</i>		<i>Analyzed: 12/05/16 20:20</i>				
1,4-Dichlorobenzene-d4	157229	10.02	146142	10.03	108	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	647334	13.19	594738	13.22	109	50 - 200	-0.0300	+/-0.50	
Acenaphthene-d10	370296	17.69	325338	17.73	114	50 - 200	-0.0400	+/-0.50	
Phenanthrene-d10	596817	21.5	499587	21.52	119	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	554407	28.31	562328	28.35	99	50 - 200	-0.0400	+/-0.50	
Perylene-d12	239924	31.68	541630	31.74	44	50 - 200	-0.0600	+/-0.50	*

\* Values outside of QC limits



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street  
 Sequence: S6L0605

Instrument: GC/MS B  
 Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S6L0605-CCV1)</b>			<i>Lab File ID: B4291.D</i>		<i>Analyzed: 12/06/16 10:50</i>				
1,4-Dichlorobenzene-d4	176941	10.01	207394	10.38	85	50 - 200	-0.3700	+/-0.50	
Naphthalene-d8	721519	13.2	819533	13.57	88	50 - 200	-0.3700	+/-0.50	
Acenaphthene-d10	396428	17.7	435362	18.09	91	50 - 200	-0.3900	+/-0.50	
Phenanthrene-d10	634563	21.5	665995	21.9	95	50 - 200	-0.4000	+/-0.50	
Chrysene-d12	663613	28.31	600558	28.73	110	50 - 200	-0.4200	+/-0.50	
Perylene-d12	653722	31.7	541096	32.12	121	50 - 200	-0.4200	+/-0.50	
<b>EP-39 (1602245-06RE1)</b>			<i>Lab File ID: B4305.D</i>		<i>Analyzed: 12/06/16 21:11</i>				
1,4-Dichlorobenzene-d4	190190	10.02	176941	10.01	107	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	796381	13.2	721519	13.2	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	467034	17.7	396428	17.7	118	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	751358	21.52	634563	21.5	118	50 - 200	0.0200	+/-0.50	
Chrysene-d12	221772	28.3	663613	28.31	33	50 - 200	-0.0100	+/-0.50	*
Perylene-d12	64535	31.66	653722	31.7	10	50 - 200	-0.0400	+/-0.50	*

\* Values outside of QC limits



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602245  
 Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6L0504	Preparation:	EPA 3050B
% Solids:	84.50	Laboratory ID:	B6L0504-MS1
		Client Sample ID:	1602239-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Aluminum	291 <del>A</del>	8550	12500 *	1340 *	75 - 125
Antimony	291	ND	289	99.1	75 - 125
Cadmium	291	0.644	285	97.4	75 - 125
Calcium	291 <del>A</del>	9510	11600 *	708 *	75 - 125
Chromium	291	16.3	305	99.1	75 - 125
Cobalt	291	8.05	286	95.5	75 - 125
Copper	291	23.4	305	96.5	75 - 125
Lead	291	37.4	314	94.9	75 - 125
Magnesium	291 <del>A</del>	4470	5670 *	414 *	75 - 125
Manganese	291	395	742	119	75 - 125
Nickel	291	16.3	292	94.8	75 - 125
Selenium	291	ND	283	97.2	75 - 125
Silver	29.1	ND	28.3	97.2	75 - 125
Sodium	291	434	910 *	163 *	75 - 125
Thallium	291	ND	254	87.2	75 - 125
Zinc	291	84.5	352	91.8	75 - 125

\* Amt. Added < 25% sample value



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1602245  
**Project:** 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6L0504	Preparation:	EPA 3050B
% Solids:	84.50	Laboratory ID:	B6L0504-MSD1
		Client Sample ID:	1602239-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Aluminum	290	12400	1340 *	0.206	20	75 - 125
Antimony	290	282	97.2	2.33	20	75 - 125
Cadmium	290	278	95.5	2.38	20	75 - 125
Calcium	290	12100	889 *	4.38	20	75 - 125
Chromium	290	299	97.5	1.95	20	75 - 125
Cobalt	290	279	93.4	2.57	20	75 - 125
Copper	290	296	94.0	2.72	20	75 - 125
Lead	290	305	92.3	2.76	20	75 - 125
Magnesium	290	5560	377 *	1.97	20	75 - 125
Manganese	290	748	122	0.778	20	75 - 125
Nickel	290	286	92.8	2.30	20	75 - 125
Selenium	290	276	95.1	2.64	20	75 - 125
Silver	29.0	27.7	95.4	2.24	20	75 - 125
Sodium	290	899	160 *	1.23	20	75 - 125
Thallium	290	248	85.4	2.48	20	75 - 125
Zinc	290	346	90.2	1.59	20	75 - 125



## SERIAL DILUTION

### EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1602245
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6L0508-SRD1
Sequence:	S6L0508	Source:	ZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Manganese	395	379	4.07		10.00
Antimony	ND	ND	N/A		10.00
Cadmium	0.644	ND	N/A		10.00
Calcium	9510	8860	7.01		10.00
Chromium	16.3	15.2	6.99		10.00
Cobalt	8.05	ND	N/A		10.00
Copper	23.4	22.0	6.16		10.00
Aluminum	8550	7720	10.2		10.00
Magnesium	4470	4110	8.29		10.00
Nickel	16.3	ND	N/A		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	434	396	9.31		10.00
Thallium	ND	ND	N/A		10.00
Zinc	84.5	81.6	3.51		10.00
Lead	37.4	36.7	1.76		10.00

\* Values outside of QC limits

## *Appendix C*

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### *Validator Qualifications*



**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Former G & C Services  
255 East 138th Street  
Bronx, NY  
NYSDEC BCP # C203057**

**SDG: 1601998**  
2 Water Samples  
1 Trip Blank

Prepared for:

**Brinkerhoff Environmental Services, Inc.  
1805 Atlantic Avenue  
Manasquan, NJ 08736**

**December 2016**



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<b>APPENDIX A</b>	Validated Analytical Results
<b>APPENDIX B</b>	Laboratory QC Documentation
<b>APPENDIX C</b>	Validator Qualifications

### *Tables*

Table 4-1	Data Validation Guidance Documents
Table 4-2	Quality Control Criteria for Validating Laboratory Analytical Data

### **Summaries of Validated Results**

Table 6-1	VOCs
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**REVIEWER'S NARRATIVE**  
**SDG 1601998**

The data associated with this Sample Delivery Group (SDG) 1601998, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/17/16  
Michael K. Perry  
Chemist

## 1.0 SUMMARY

**SITE:** 255 East 138<sup>th</sup> Street.  
Bronx, NY

**SAMPLING DATE:** October 18, 2016

**SAMPLE TYPE:** 2 water samples and 1 trip blank

**LABORATORY:** Accredited Analytical Resources, LLC.  
Carteret, NJ

**SDG No.:** 1601998

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for two water samples collected on October 18, 2016. These samples were analyzed for volatile organic compounds.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601998. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1****DATA VALIDATION GUIDANCE DOCUMENTS**

<b>Analyte Type</b>	<b>Validation Guidance</b>
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.  USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.



**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Table 6-1. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG 1601998, two samples and a trip blank were analyzed and results were reported for 207 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

**Table 6-1**      **VOCs**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
All samples	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated for these analytes

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

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*Validated  
Analytical  
Results*



# Accredited Analytical Resources, LLC.

## ANALYTICAL REPORT

for

### BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1601998

<u>Client Sample ID:</u>	<u>Lab Sample ID:</u>
SMW-1	1601998-01
TMW-2	1601998-02
Trip Blank	1601998-03

This data has been reviewed and accepted by:

Daniel Miguel  
Technical Director

11/16/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



## Case Narrative

### Conformance / Non-Conformance Summary

**AAR Work Order:1601998**

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 10/18/2016 15:45.

All analyses were performed within the required holding time.

B6J2014-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel  
Technical Director

## Methodology Summary

**Volatile Organic Compounds EPA Method SW846 8260:**  
NJ 8260B  
NY 8260C





**Accredited Analytical Resources, LLC.**  
 20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

**CHAIN OF CUSTODY FORM**

STATE AGENCY (CIRCLE ONE) NJ **(NY)** PA  
 PROJECT NAME: 255 East 138<sup>th</sup> Street, Bronx, NY  
 CONTACT: Sean Harrison  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-3666  
 INITIAL RESULTS TO: Sean Harrison  
 EMAIL FOR INVOICE: sharrison@brinkenv.com

CLIENT NAME: Brinkhoff Environmental  
 ADDRESS: 1805 Atlantic Ave  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

AAR QUOTE #: 16J1998  
 AAR WORK ORDER #: 10BR188  
 P.O.#:  
 ANALYSIS  
 PRES. CODE - 1  
 CONT. CODE - 5

COLLECTION INFORMATION						AAR SAMPLE #
CUSTOMER SAMPLE #/ID	DATE/TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (S) / COMP (C)	
SMW-1	10/18/16/01:40	GW	6	2	6 X	- 01
TMW-2	01/18/16/10:20	GW	6	2	6 X	- 02
Fip Blank	10/18/16/13:18	TB	2	TB	X	- 03

*TCL VOLs*

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER VW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER  
 CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER  
 TURNAROUND TIME (CIRCLE ONE): **(STANDARD)** 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER  
 (IF BLANK STANDARD WILL APPLY)  
 REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL \_\_\_\_\_ EDD  EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 4, 2016. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name: Sean Harrison	Signature:	Print Name: B. M. WITZ	Signature:	Print Name:	Signature:	Print Name:	Signature:
Agent of: Brinkhoff	Date Received: 10/18/16	Agent of: AAR	Time: 1545	Agent of:	Date Received:	Agent of:	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Signature:	Print Name:	Signature:	Print Name:	Signature:	Print Name:	Signature:
Agent of:	Date Received:	Agent of:	Time:	Agent of:	Date Received:	Agent of:	Time:



**Analytical Report for Samples**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
SMW-1	1601998-01	Ground Water	10/18/2016 09:40	10/18/2016 15:45
TMW-2	1601998-02	Ground Water	10/18/2016 10:20	10/18/2016 15:45
Trip Blank	1601998-03	Aqueous	10/18/2016 13:18	10/18/2016 15:45

**Data Qualifiers**

- \* Values outside of QC limits
- ND - Indicates compound analyzed for but not detected
- U - Indicates compound analyzed for but not detected
- J - Indicates estimated value for TICs and all results when detected below the RL
- B - Indicates compound found in associated blank
- E - Concentration exceeds highest calibration standard
- D - Indicates result is based on a dilution
- P - Greater than 25% diff. between 2 GC columns.
- MDL - Minimum detection limit
- RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **SMW-1**  
 Lab Sample ID: **1601998-01**  
 Project: **255 East 138th Street, Bronx, NY**  
 Work Order: **1601998**

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND <i>UJ</i>	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** SMW-1  
**Lab Sample ID:** 1601998-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S5J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	0.500	0.500	1.00	J
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	1.03	1.00	2.00	J
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	2.98	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** SMW-1  
**Lab Sample ID:** 1601998-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	5.57	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.680	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	0.990	0.500	1.00	J
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	90%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	109%	70-130



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **TMW-2**  
 Lab Sample ID: **1601998-02**  
 Project: **255 East 138th Street, Bronx, NY**  
 Work Order: **1601998**

Date Sampled: 10/18/16 10:20	Prep Date: 10/20/16 18:39	Matrix: Ground Water
Percent Solids:	Prep Method: EPA 5030B	File ID: M21715.D
Prep Batch: B6J2014	Sequence: S6J2006	Analyzed: 10/20/16 18:39
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND <i>uJ</i>	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND <i>uJ</i>	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	0.650	0.500	1.00	J
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	0.690	0.500	1.00	J



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** TMW-2  
**Lab Sample ID:** 1601998-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled:	10/18/16 10:20	Prep Date:	10/20/16 18:39	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21715.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 18:39
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-4:	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	0.560	0.500	1.00	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** TMW-2  
**Lab Sample ID:** 1601998-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled:	10/18/16 10:20	Prep Date:	10/20/16 18:39	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21715.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 18:39
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	0.870	0.500	1.00	J
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	90%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	110%	70-130





## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Trip Blank  
**Lab Sample ID:** 1601998-03  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled: 10/18/16 13:18	Prep Date: 10/20/16 14:43	Matrix: Aqueous
Percent Solids:	Prep Method: EPA 5030B	File ID: M21708.D
Prep Batch: B6J2014	Sequence: S6J2006	Analyzed: 10/20/16 14:43
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrofein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND <i>u.s.</i>	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND <i>u.s.</i>	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Trip Blank  
**Lab Sample ID:** 1601998-03  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1601998

Date Sampled: 10/18/16 13:18	Prep Date: 10/20/16 14:43	Matrix: Aqueous
Percent Solids:	Prep Method: EPA 5030B	File ID: M21708.D
Prep Batch: B6J2014	Sequence: S6J2006	Analyzed: 10/20/16 14:43
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **Trip Blank**  
 Lab Sample ID: **1601998-03**  
 Project: **255 East 138th Street, Bronx, NY**  
 Work Order: **1601998**

Date Sampled:	10/18/16 13:18	Prep Date:	10/20/16 14:43	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21708.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 14:43
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	93%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	108%	70-130

***Appendix B***

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***Laboratory  
QC  
Documentation***



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1601998**  
 Project: **255 East 138th Street, Bronx, NY**

Instrument ID: <b>GC/MS M</b>	Calibration: <b>16H2902</b>
Lab File ID: <b>M21701.D</b>	Calibration Date: <b>08/29/16 18:50</b>
Sequence: <b>S6J2006</b>	Injection Date: <b>10/20/16</b>
Lab Sample ID: <b>S6J2006-CCV1</b>	Injection Time: <b>10:08</b>

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	115	8.468518E-02	7.821755E-02		-7.6	
Acrylonitrile	A	125	132	0.194691	0.2062614		5.9	
Acetone	L	25.0	27.8	0.4741953	0.3045906		-35.8	
Dichlorodifluoromethane	A	25.0	23.0	0.5720878	0.5262168		-8.0	
Chloromethane	A	25.0	26.1	1.14564	1.194678	0.1	4.3	
Vinyl chloride	A	25.0	25.2	1.166721	1.176257		0.8	20
Bromomethane	A	25.0	20.6	0.7081722	0.5840369		-17.5	
Chloroethane	A	25.0	23.4	0.7900963	0.740859		-6.2	
Trichlorofluoromethane	A	25.0	25.9	1.095424	1.133879		3.5	
Freon 113	A	25.0	30.4	0.7604944	0.9236162		21.4	
1,1-Dichloroethene	A	25.0	21.8	1.506193	1.315327		-12.7	20
Carbon disulfide	A	25.0	25.9	3.220181	3.33427		3.5	
Methyl Acetate	A	25.0	25.4	0.9683464	0.9849931		1.7	
Methylene Chloride	L	25.0	21.2	2.460133	1.396718		-43.2	
trans-1,2-Dichloroethene	A	25.0	21.9	1.296263	1.134902		-12.4	
1,1-Dichloroethane	A	25.0	22.0	1.631812	1.435458	0.1	-12.0	
Vinyl acetate	A	25.0	26.5	2.075714	2.20354		6.2	
2,2-Dichloropropane	A	25.0	22.5	1.292487	1.164365		-9.9	
2-Butanone	A	25.0	24.3	0.3492593	0.3396562		-2.7	
cis-1,2-Dichloroethene	A	25.0	22.0	1.164151	1.024547		-12.0	
Chloroform	A	25.0	22.3	1.385779	1.234927		-10.9	20
Bromochloromethane	A	25.0	21.8	0.3151365	0.2743303		-12.9	
Cyclohexane	A	25.0	29.8	1.597664	1.905402		19.3	



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 16D1998  
 Project: 255 East 138th Street, Bronx, NY

Calibration:	16H2902	Instrument:	GC/MS M
		Calibration Date:	8/29/2016 6:50:44PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	8.468518E-02	4.877169		
Acrylonitrile	0.194691	3.397019		
Acetone	0.4741953	84.61052		
Dichlorodifluoromethane	0.5720878	15.0854		
Chloromethane	1.14564	8.465748	SPCC (0.1)	
Vinyl chloride	1.166721	5.66808	CCC (20)	
Bromomethane	0.7081722	14.65262		
Chloroethane	0.7900963	10.27114		
Trichlorofluoromethane	1.095424	4.547682		
Freon 113	0.7604944	4.650757		
1,1-Dichloroethene	1.506193	6.186481	CCC (20)	
Carbon disulfide	3.220181	6.18682		
Methyl Acetate	0.9683464	4.415078		
Methylene Chloride	2.460133	72.97314		
trans-1,2-Dichloroethene	1.296263	3.304176		
1,1-Dichloroethane	1.631812	4.943017	SPCC (0.1)	
Vinyl acetate	2.075714	4.247701		
2,2-Dichloropropane	1.292487	4.100514		
2-Butanone	0.3492593	12.50062		
cis-1,2-Dichloroethene	1.164151	3.045368		
Chloroform	1.385779	5.462834	CCC (20)	
Bromochloromethane	0.3151365	4.600406		
Cyclohexane	1.597664	4.865309		
1,1,1-Trichloroethane	1.097887	4.640728		
t-Butyl alcohol	3.796705E-02	3.399202		

## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.



**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Former G & C Services  
255 East 138th Street  
Bronx, NY  
NYSDEC BCP # C203057**

**SDG: 1602078**

1 Water Sample  
1 Trip Blank

Prepared for:

**Brinkerhoff Environmental Services, Inc.  
1805 Atlantic Avenue  
Manasquan, NJ 08736**

**December 2016**



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<b>APPENDIX A</b>	Validated Analytical Results
<b>APPENDIX B</b>	Laboratory QC Documentation
<b>APPENDIX C</b>	Validator Qualifications

### *Tables*

Table 4-1	Data Validation Guidance Documents
Table 4-2	Quality Control Criteria for Validating Laboratory Analytical Data

### **Summaries of Validated Results**

Table 6-1	VOCs
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**REVIEWER'S NARRATIVE**  
**SDG 1602078**

The data associated with this Sample Delivery Group (SDG) 1602078, analyzed by Accredited Analytical Resources, LLC, Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/17/16  
Michael K. Perry  
Chemist

## 1.0 SUMMARY

**SITE:** 255 East 138<sup>th</sup> Street.  
Bronx, NY

**SAMPLING DATE:** November 2, 2016

**SAMPLE TYPE:** 1 water sample and 1 trip blank

**LABORATORY:** Accredited Analytical Resources, LLC.  
Carteret, NJ

**SDG No.:** 1602078

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for one water sample collected on November 2, 2016. This sample was analyzed for volatile organic compounds.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602078. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1**

**DATA VALIDATION GUIDANCE DOCUMENTS**

<b>Analyte Type</b>	<b>Validation Guidance</b>
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.  USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate



The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Table 6-1. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG 1602078, one sample and a trip blank were analyzed and results were reported for 138 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

**Table 6-1**      **VOCs**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Samples are non-detect
All samples	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are non-detect
All samples	Chloroethylvinylether	UJ non-detects	MS/MSD % rec < 10 %	Samples are non-detect

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

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*Validated  
Analytical  
Results*



# Accredited Analytical Resources, LLC.

## ANALYTICAL REPORT

for

### BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1602078

<u>Client Sample ID:</u>	<u>Lab Sample ID:</u>
SMW-1	1602078-01
Trip Blank	1602078-02

This data has been reviewed and accepted by:

Daniel Miguel  
Technical Director

11/21/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



## Case Narrative

### Conformance / Non-Conformance Summary

AAR Work Order: 1602078

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 11/02/2016 10:25.

All analyses were performed within the required holding time.

B6K0218-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel  
Technical Director

## Methodology Summary

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B

NY 8260C



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

CLIENT NAME: Brinkerhoff Environmental  
 ADDRESS: 1805 Atlantic Ave  
 CITY: Manasquan  
 STATE: NJ ZIP: \_\_\_\_\_

STATE AGENCY (CIRCLE ONE): NJ (NY) PA  
 PROJECT NAME: 255 East 138<sup>th</sup> Street, Bronx, NY  
 CONTACT: Sean Harrison  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-3666  
 INITIAL RESULTS TO: Sean Harrison  
 EMAIL FOR INVOICE: sharrison@brakenv.com

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1632078  
 P.O. # 10B2188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	ANALYSIS										AAR SAMPLE #
SMW-1	11/21/16 108436W	-	2	G	X	TCL VOCs G 4										-01
Trip Blank	11/21/16 10800TB	-	2	TB	X											-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO3 3 = H2SO4 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER \_\_\_\_\_  
 (IF BLANK STANDARD WILL APPLY) Evening of 11/3/16 *preferable*

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL \_\_\_\_\_ EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 16, 2016. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY: Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of: <u>Brinkerhoff</u> Date Received: <u>11/21/16</u> Time: <u>10:25</u>	RECEIVED BY: Print Name: <u>A. Muniz</u> Signature: <u>A. Muniz</u> Agent of: <u>AAR</u>	RELINQUISHED BY:	RECEIVED BY:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:





**Analytical Report for Samples**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
SMW-1	1602078-01	Ground Water	11/02/2016 08:43	11/02/2016 10:25
Trip Blank	1602078-02	Aqueous	11/02/2016 08:00	11/02/2016 10:25

**Data Qualifiers**

- \* Values outside of QC limits
- ND - Indicates compound analyzed for but not detected
- U - Indicates compound analyzed for but not detected
- J - Indicates estimated value for TICs and all results when detected below the RL
- B - Indicates compound found in associated blank
- E - Concentration exceeds highest calibration standard
- D - Indicates result is based on a dilution
- P - Greater than 25% diff. between 2 GC columns
- MDL - Minimum detection limit
- RL - Reporting limit



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **SMW-1**  
 Lab Sample ID: **1602078-01**  
 Project: **255 East 138th Street, Bronx, NY**  
 Work Order: **1602078**

Date Sampled: 11/02/16 08:43	Prep Date: 11/02/16 17:27	Matrix: Ground Water
Percent Solids:	Prep Method: EPA 5030B	File ID: M21813.D
Prep Batch: B6K0218	Sequence: S6K0209	Analyzed: 11/02/16 17:27
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND <i>UJ</i>	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** SMW-1  
**Lab Sample ID:** 1602078-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>US</i>	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	1.66	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** SMW-1  
**Lab Sample ID:** 1602078-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1602078

Date Sampled: 11/02/16 08:43	Prep Date: 11/02/16 17:27	Matrix: Ground Water
Percent Solids:	Prep Method: EPA 5030B	File ID: M21813.D
Prep Batch: B6K0218	Sequence: S6K0209	Analyzed: 11/02/16 17:27
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	1.76	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.600	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	104%	70-130



**ANALYSIS DATA SHEET**  
EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Client Sample ID: **Trip Blank**  
 Lab Sample ID: **1602078-02**  
 Project: **255 East 138th Street, Bronx, NY**  
 Work Order: **1602078**

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND <i>UJ</i>	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND <i>UJ</i>	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Trip Blank  
**Lab Sample ID:** 1602078-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND <i>WJ</i>	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U



**ANALYSIS DATA SHEET**  
EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Trip Blank  
**Lab Sample ID:** 1602078-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	103%	70-130

***Appendix B***

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***Laboratory  
QC  
Documentation***





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street, Bronx, NY  
 Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MS1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Benzene	25.0	ND	22.6	90	70 - 130
Trichloroethene	25.0	ND	23.0	92	70 - 130
Methylcyclohexane	25.0	ND	30.3	121	70 - 130
1,2-Dichloropropane	25.0	ND	23.0	92	70 - 130
Bromodichloromethane	25.0	ND	23.2	93	70 - 130
Dibromomethane	25.0	ND	22.6	90	70 - 130
2-Chloroethyl vinyl ether	25.0	ND	0.700	3	70 - 130
cis-1,3-Dichloropropene	25.0	ND	23.1	92	70 - 130
Toluene	25.0	ND	23.7	95	70 - 130
trans-1,3-Dichloropropene	25.0	ND	23.4	93	70 - 130
1,1,2-Trichloroethane	25.0	ND	23.4	94	70 - 130
4-Methyl-2-pentanone	25.0	ND	27.4	110	40 - 160
1,2-Dibromoethane	25.0	ND	23.9	96	70 - 130
2-Hexanone	25.0	ND	26.8	107	40 - 160
1,3-Dichloropropane	25.0	ND	22.8	91	70 - 130
Tetrachloroethene	25.0	ND	21.0	84	70 - 130
Dibromochloromethane	25.0	ND	23.0	92	70 - 130
Ethylbenzene	25.0	ND	23.4	94	70 - 130
Chlorobenzene	25.0	ND	22.8	91	70 - 130
1,1,1,2-Tetrachloroethane	25.0	ND	22.6	91	70 - 130
m,p-Xylenes	50.0	ND	46.9	94	70 - 130
o-Xylene	50.0	ND	49.6	99	70 - 130
Styrene	50.0	ND	49.0	98	70 - 130
Bromoform	25.0	ND	22.8	91	70 - 130
Isopropylbenzene	25.0	1.66	24.0	90	70 - 130
1,1,2,2-Tetrachloroethane	25.0	ND	23.2	93	70 - 130
1,2,3-Trichloropropane	25.0	ND	23.1	92	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street, Bronx, NY  
 Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MSD1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Acrolein	125	163	131	18	20	40 - 160
Acrylonitrile	125	159	127	11	20	70 - 130
Acetone	25.0	24.3	97	10	20	40 - 160
Dichlorodifluoromethane	25.0	20.0	80	5	20	40 - 160
Chloromethane	25.0	24.5	98	8	20	40 - 160
Vinyl chloride	25.0	29.2	117	3	20	70 - 130
Bromomethane	25.0	30.6	122	5	20	40 - 160
Chloroethane	25.0	22.3	89	15	20	40 - 160
Trichlorofluoromethane	25.0	33.2	133	0.9	20	40 - 160
Freon 113	25.0	31.0	124	5	20	70 - 130
1,1-Dichloroethene	25.0	22.5	90	6	20	70 - 130
Carbon disulfide	25.0	24.6	98	10	20	40 - 160
Methyl Acetate	25.0	31.2	125	10	20	70 - 130
Methylene Chloride	25.0	24.5	98	11	20	70 - 130
trans-1,2-Dichloroethene	25.0	23.8	95	8	20	70 - 130
1,1-Dichloroethane	25.0	24.4	98	9	20	70 - 130
2,2-Dichloropropane	25.0	24.7	99	10	20	70 - 130
2-Butanone	25.0	27.6	111	12	20	40 - 160
cis-1,2-Dichloroethene	25.0	25.5	102	8	20	70 - 130
Chloroform	25.0	24.6	98	10	20	70 - 130
Bromochloromethane	25.0	24.3	97	9	20	70 - 130
Cyclohexane	25.0	34.0	136	7	20	70 - 130
1,1,1-Trichloroethane	25.0	24.7	99	8	20	70 - 130
t-Butyl alcohol	250	537	144	12	20	40 - 160
1,1-Dichloropropene	25.0	22.0	88	7	20	70 - 130
Carbon Tetrachloride	25.0	22.7	91	8	20	70 - 130
1,2-Dichloroethane	25.0	25.2	101	8	20	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street, Bronx, NY  
 Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MSD1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Benzene	25.0	24.7	99	9	20	70 - 130
Trichloroethene	25.0	24.5	98	6	20	70 - 130
Methylcyclohexane	25.0	33.0	132 *	8	20	70 - 130
1,2-Dichloropropane	25.0	25.2	101	9	20	70 - 130
Bromodichloromethane	25.0	25.0	100	8	20	70 - 130
Dibromomethane	25.0	25.4	102	12	20	70 - 130
2-Chloroethyl vinyl ether	25.0	0.680	3 *	3	20	70 - 130
cis-1,3-Dichloropropene	25.0	24.6	98	6	20	70 - 130
Toluene	25.0	25.4	102	7	20	70 - 130
trans-1,3-Dichloropropene	25.0	26.4	106	12	20	70 - 130
1,1,2-Trichloroethane	25.0	26.4	106	12	20	70 - 130
4-Methyl-2-pentanone	25.0	30.4	122	10	20	40 - 160
1,2-Dibromoethane	25.0	26.9	108	12	20	70 - 130
2-Hexanone	25.0	30.6	122	13	20	40 - 160
1,3-Dichloropropane	25.0	25.8	103	12	20	70 - 130
Tetrachloroethene	25.0	22.8	91	8	20	70 - 130
Dibromochloromethane	25.0	25.4	102	10	20	70 - 130
Ethylbenzene	25.0	26.0	104	10	20	70 - 130
Chlorobenzene	25.0	25.2	101	10	20	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.9	100	9	20	70 - 130
m,p-Xylenes	50.0	51.6	103	10	20	70 - 130
o-Xylene	50.0	54.6	109	9	20	70 - 130
Styrene	50.0	54.3	109	10	20	70 - 130
Bromoform	25.0	25.5	102	11	20	70 - 130
Isopropylbenzene	25.0	25.8	96	7	20	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.0	104	11	20	70 - 130
1,2,3-Trichloropropane	25.0	25.7	103	11	20	70 - 130



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1602078  
 Project: 255 East 138th Street, Bronx, NY

Calibration:	16H2902	Instrument:	GC/MS M
		Calibration Date:	8/29/2016 6:50:44PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	8.468518E-02	4.877169		
Acrylonitrile	0.194691	3.397019		
Acetone	0.4741953	84.61052		
Dichlorodifluoromethane	0.5720878	15.0854		
Chloromethane	1.14564	8.465748	SPCC (0.1)	
Vinyl chloride	1.166721	5.66908	CCC (20)	
Bromomethane	0.7081722	14.65262		
Chloroethane	0.7900963	10.27114		
Trichlorofluoromethane	1.095424	4.547682		
Freon 113	0.7604944	4.650757		
1,1-Dichloroethene	1.506193	6.186481	CCC (20)	
Carbon disulfide	3.220181	6.18682		
Methyl Acetate	0.9683464	4.415078		
Methylene Chloride	2.460133	72.97314		
trans-1,2-Dichloroethene	1.296263	3.304176		
1,1-Dichloroethane	1.631812	4.943017	SPCC (0.1)	
Vinyl acetate	2.075714	4.247701		
2,2-Dichloropropane	1.292487	4.100514		
2-Butanone	0.3492593	12.50062		
cis-1,2-Dichloroethene	1.164151	3.045368		
Chloroform	1.385779	5.462834	CCC (20)	
Bromochloromethane	0.3151365	4.600406		
Cyclohexane	1.597664	4.865309		
1,1,1-Trichloroethane	1.097887	4.640728		
t-Butyl alcohol	3.796705E-02	3.399202		



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1602078**  
 Project: **255 East 138th Street, Bronx, NY**

Instrument ID: **GC/MS M**

Calibration: **16H2902**

Lab File ID: **M21809.D**

Calibration Date: **08/29/16 18:50**

Sequence: **S6K0209**

Injection Date: **11/02/16**

Lab Sample ID: **S6K0209-CCV1**

Injection Time: **15:03**

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	132	8.468518E-02	8.932844E-02		5.5	
Acrylonitrile	A	125	134	0.194691	0.2087755		7.2	
Acetone	L	25.0	28.6	0.4741953	0.3117582		-34.3	
Dichlorodifluoromethane	A	25.0	22.3	0.5720878	0.5111462		-10.7	
Chloromethane	A	25.0	23.7	1.14564	1.087396	0.1	-5.1	
Vinyl chloride	A	25.0	28.8	1.166721	1.343284		15.1	20
Bromomethane	A	25.0	28.5	0.7081722	0.8073218		14.0	
Chloroethane	A	25.0	20.2	0.7900963	0.6380119		-19.2	
Trichlorofluoromethane	A	25.0	30.8	1.095424	1.351528		23.4	
Freon 113	A	25.0	29.6	0.7604944	0.8989575		18.2	
1,1-Dichloroethene	A	25.0	22.3	1.506193	1.345367		-10.7	20
Carbon disulfide	A	25.0	24.6	3.220181	3.171115		-1.5	
Methyl Acetate	A	25.0	26.1	0.9683464	1.010885		4.4	
Methylene Chloride	L	25.0	23.6	2.460133	1.52767		-37.9	
trans-1,2-Dichloroethene	A	25.0	22.1	1.296263	1.14489		-11.7	
1,1-Dichloroethane	A	25.0	22.3	1.631812	1.456635	0.1	-10.7	
Vinyl acetate	A	25.0	26.3	2.075714	2.181324		5.1	
2,2-Dichloropropane	A	25.0	22.7	1.292487	1.175233		-9.1	
2-Butanone	A	25.0	26.5	0.3492593	0.3703005		6.0	
cis-1,2-Dichloroethene	A	25.0	23.0	1.164151	1.071473		-8.0	
Chloroform	A	25.0	22.5	1.385779	1.24484		-10.2	20
Bromochloromethane	A	25.0	21.8	0.3151365	0.2754709		-12.6	
Cyclohexane	A	25.0	28.6	1.597664	1.825778		14.3	

## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

**MICHAEL K. PERRY**  
**Chemist/Data Validator**

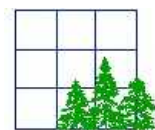
B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).





## **ATTACHMENT XX**

---

Eastern Concrete Materials, INC.  
**Hamburg Quarry**  
 3620 Route 23 Hamburg, NJ 07419  
 Phone (888) 913-7625 Fax (973) 827-0652

Technical Service Report Material Analysis

Client: \_\_\_\_\_

Date: 5-Dec

Project: \_\_\_\_\_

Plant: Hamburg Quarry

Material: #2

Tested By: Leslie

Sieve Size	Wgt. Ret Accum	%Retained Accum	%Passing	Specification	%Passing
3 1/2	0	0.0%	100.0%	100	100
3	0	0.0%	100.0%	100	100
2 1/2	3.3	5.8%	94.2%	90->100	
2	25.1	43.8%	56.2%	35->70	
1 1/2	56.3	98.3%	1.7%	0->15	
1	56.8	99.1%	0.9%		
3/4	57	99.5%	0.5%	0->5	
		0.0%	100.0%		
		0.0%	100.0%		
		0.0%	100.0%		
		0.0%	100.0%		
		0.0%	100.0%		
Pan	57.3	100.0%	0.0%		

F.M. \_\_\_\_\_

Wash  
#200

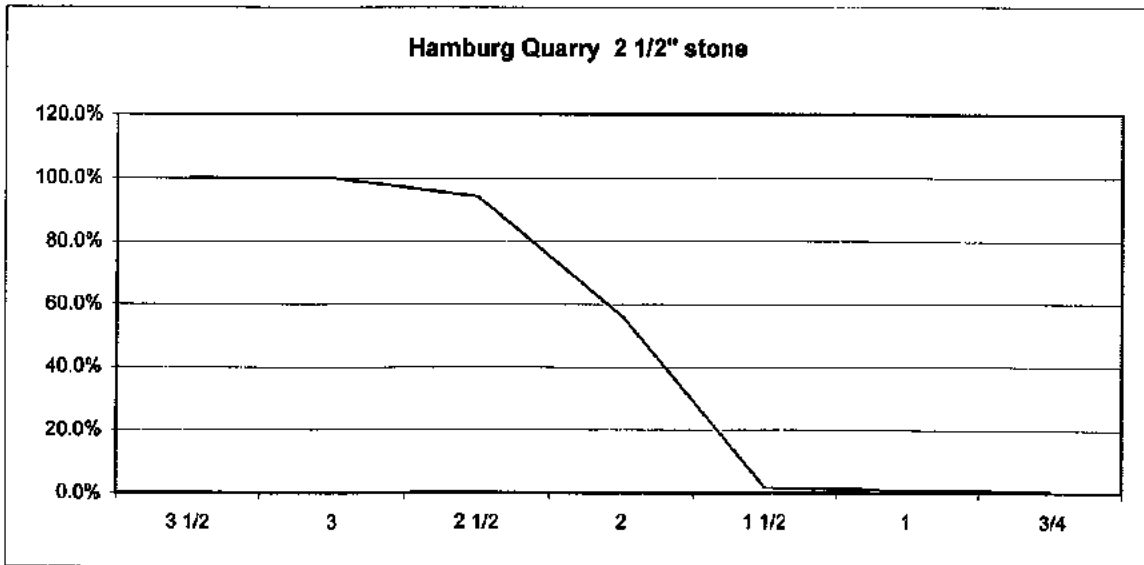
Before 57.3

After \_\_\_\_\_

Diff \_\_\_\_\_

Remarks \_\_\_\_\_

\_\_\_\_\_



# Tilcon NY, Kearny

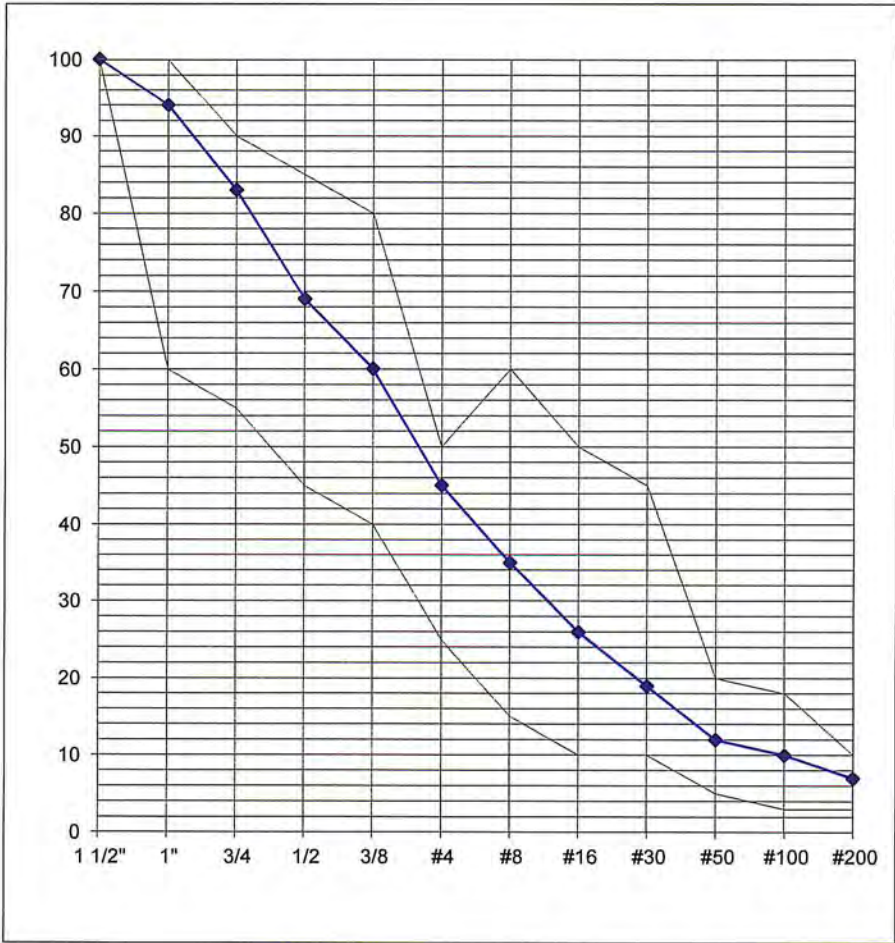
## Typical Gradation RCA

Project	

Contractor	

Sp. Gr	
Loose	
Rodded	

	Typical % Pass	Prod. Target	
		Low	High
1 1/2"	100	100	100
1"	94	60	100
3/4"	83	55	90
1/2"	69	45	85
3/8"	60	40	80
#4	45	25	50
#8	35	15	60
#16	26	10	50
#30	19	10	45
#50	12	5	20
#100	10	3	18
#200	7	3	10



Tilcon NY confirms that the RCA available at Kearney conforms to the quality requirements of section 901 of **The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction**. The material is concrete aggregate recycled at Tilcon New York's Kearny facility, 411 Bergen Street Kearny, Essex county NJ. The material is identified on the job with Kearny delivery tickets.

The unit weights and voids and typical gradation are for process control and should be verified by the contractor before use.

## Monica Norton

---

**From:** Mecomber, Dana P (DEC) <Dana.Mecomber@dec.ny.gov>  
**Sent:** Tuesday, October 13, 2015 10:32 AM  
**To:** Sean Harrison  
**Cc:** 'Doug Harm'; mnorton@brinkenv.com; Pierce, Ira  
**Subject:** RE: 255 East 138th Street, Bronx, NY - Base Material

Well the stone doesn't come directly from the recycling facility – I'm just asking the original source to confirm that it is in fact stone and not RCA. However even if it is RCA, this material is acceptable since it is from a DEC registered facility and meets the sieve test requirements. (As a reminder, if any recycled concrete or brick is to be imported from these facilities it must also meet the NYSDOT Section 304 specs.)

The virgin stone from Hamburg quarry is also approved.

One more reminder for **any** material imported to the site: it should be free of asphalt. This isn't specified in DER-10, but per the solid waste regulations, it would constitute importing solid waste to the site. Sometimes it is present in blends from recycling facilities so just a heads-up. Monica or whomever is on site should be inspecting the material as it is imported to look out for this (and also make sure there are not fines incorporated), and of course the Remedial Engineer is ultimately responsible.

## Dana Mecomber, P.E., MPA

Environmental Engineer I, Division of Environmental Remediation

### New York State Department of Environmental Conservation

47-40 21<sup>st</sup> Street, Long Island City, NY 11101-5401

P: (718) 482-7541 | F: (718) 482-6358 | [dana.mecomber@dec.ny.gov](mailto:dana.mecomber@dec.ny.gov)

[www.dec.ny.gov](http://www.dec.ny.gov) |  | 

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---

**From:** Sean Harrison [mailto:sharrison@brinkenv.com]  
**Sent:** Tuesday, October 13, 2015 10:09 AM  
**To:** Mecomber, Dana P (DEC)  
**Cc:** 'Doug Harm'; mnorton@brinkenv.com  
**Subject:** RE: 255 East 138th Street, Bronx, NY - Base Material

Hi Dana,

It is coming from New York Recycling, LLC, located at 475 Exterior Street, Bronx, New York, which is a DEC-registered construction and demolition debris processing facility.

Also, they have proposed to use 2-1/2" virgin stone from a permitted quarry located at Hamburg Quarry, 3620 Route 23, Hamburg, NJ. Attached is the sieve analysis for reference. Are both of these acceptable to import?

Thanks,

Sean

---

Sean Harrison  
[sharrison@brinkenv.com](mailto:sharrison@brinkenv.com)



1805 Atlantic Avenue  
Manasquan, NJ 08736  
Phone: 732-223-2225, xt 26  
Fax: 732-223-3666  
Web: [www.BrinkEnv.com](http://www.BrinkEnv.com)

---

**From:** Mecomber, Dana P (DEC) [<mailto:Dana.Mecomber@dec.ny.gov>]  
**Sent:** Tuesday, October 13, 2015 9:55 AM  
**To:** Sean Harrison  
**Cc:** 'Doug Harm'; 'Monica Norton'  
**Subject:** RE: 255 East 138th Street, Bronx, NY - Base Material

Can you just confirm where the material is from – is it virgin stone from a permitted mine/quarry?

### **Dana Mecomber, P.E., MPA**

Environmental Engineer I, Division of Environmental Remediation

#### **New York State Department of Environmental Conservation**

47-40 21<sup>st</sup> Street, Long Island City, NY 11101-5401

P: (718) 482-7541 | F: (718) 482-6358 | [dana.mecomber@dec.ny.gov](mailto:dana.mecomber@dec.ny.gov)

[www.dec.ny.gov](http://www.dec.ny.gov) |  | 

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---

**From:** Sean Harrison [<mailto:sharrison@brinkenv.com>]  
**Sent:** Thursday, October 08, 2015 4:36 PM  
**To:** Mecomber, Dana P (DEC)  
**Cc:** 'Doug Harm'; 'Monica Norton'  
**Subject:** 255 East 138th Street, Bronx, NY - Base Material

Hi Dana,

The contractor is anticipating on importing 2-3-inch crushed stone from New York Recycling, LLC to use as base material for underneath the slab. Attached is the sieve analysis. Is this acceptable? Let me know when you have a chance.

Thanks,

Sean

---

Sean Harrison  
[sharrison@brinkenv.com](mailto:sharrison@brinkenv.com)



1805 Atlantic Avenue  
Manasquan, NJ 08736  
Phone: 732-223-2225, xt 26  
Fax: 732-223-3666  
Web: [www.BrinkEnv.com](http://www.BrinkEnv.com)

## Monica Norton

---

**From:** Mecomber, Dana P (DEC) <Dana.Mecomber@dec.ny.gov>  
**Sent:** Thursday, October 22, 2015 9:53 AM  
**To:** Sean Harrison  
**Cc:** mnorton@brinkenv.com; Doug Harm; Pierce, Ira  
**Subject:** RE: Tilcon New York Inc. - RCA - 255 E. 138th Street, Bronx, NY

The material is approved provided that it meets the other requirements in DER-10 - must conform to requirements of Section 304 of the NYSDOT standard specifications. As I mentioned for the other requests, you are also responsible for ensuring the material is free of fines and asphalt (or other material that is not allowed).

Where are you putting the RCA? Have you collected bottom endpoint samples yet?

Dana Mecomber, P.E., MPA  
Environmental Engineer I, Division of Environmental Remediation

New York State Department of Environmental Conservation  
47-40 21st Street, Long Island City, NY 11101-5401  
P: (718) 482-7541 | F: (718) 482-6358 | [dana.mecomber@dec.ny.gov](mailto:dana.mecomber@dec.ny.gov)

[www.dec.ny.gov](http://www.dec.ny.gov) | |

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-----Original Message-----

From: Sean Harrison [<mailto:sharrison@brinkenv.com>]  
Sent: Tuesday, October 20, 2015 6:34 PM  
To: Mecomber, Dana P (DEC)  
Cc: mnorton@brinkenv.com; Doug Harm  
Subject: Tilcon New York Inc. - RCA - 255 E. 138th Street, Bronx, NY

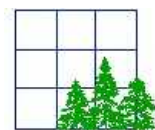
Hi Dana,

The contractor is looking to import RCA from Tilcon New York Inc. and I just want to confirm that it is acceptable to import to the site. Tilcon New York Inc. is a NYSDEC registered C & D processing facility. Attached is the gradation report. Please let me know if this is approved.

Thanks,

Sean

Sean Harrison  
Geologist  
Brinkerhoff Environmental Services, Inc.  
Cell: (207)-650-1560  
Sent from my iPhone



## **ATTACHMENT XXI**

---





# Accredited Analytical Resources, LLC.

---

03 November 2015

AAR Work Order: 1501878

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/03/2015 15:48

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-1	1501878-01	Soil	10/19/2015 11:30	10/20/2015 15:15
EP-2	1501878-02	Soil	10/19/2015 11:35	10/20/2015 15:15
EP-3	1501878-03	Soil	10/19/2015 11:40	10/20/2015 15:15
EP-4	1501878-04	Soil	10/19/2015 11:45	10/20/2015 15:15
EP-5	1501878-05	Soil	10/19/2015 11:50	10/20/2015 15:15

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- E Concentration exceeds calibration range
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/03/2015 15:48

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

---

Accredited Analytical Resources LLC

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---

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/03/2015 15:48

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	37.8	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	12.6	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>637</b>	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>75.1</b>	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-43-2	Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/03/2015 15:48

**Client ID: EP-1**

**Lab ID: 1501878-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-88-3	Toluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-42-5	Styrene	ND	6.30	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				114 %	70-130		10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				101 %	70-130		10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				76 %	70-130		10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
108-95-2	Phenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/03/2015 15:48

**Client ID: EP-1**

**Lab ID: 1501878-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
78-59-1	Isophorone	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	186	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	74.7	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

7005-72-3	4-Chlorophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-73-7	Fluorene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-12-7	Anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
129-00-0	Pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	186	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
218-01-9	Chrysene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol	35 %	30-130	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270
Surrogate: Phenol-d5	40 %	30-130	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270
Surrogate: Nitrobenzene-d5	33 %	30-130	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl				37 %	30-130		10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				49 %	30-130		10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	
Surrogate: Terphenyl-d14				90 %	30-130		10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.9	14.9	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	74.7	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				75.5 %	30-150		10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				78.2 %	30-150		10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				72.1 %	30-150		10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				75.3 %	30-150		10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>7420</b>	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.58</b>	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>57.1</b>	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>11300</b>	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>15.6</b>	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-48-4	Cobalt	ND	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>16.2</b>	6.73	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>13300</b>	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>12.3</b>	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>6000</b>	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>373</b>	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	

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 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/03/2015 15:48

**Client ID: EP-1**

**Lab ID: 1501878-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7440-02-0	Nickel	12.9	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-09-7	Potassium	1410	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-23-5	Sodium	594	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.36	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-62-2	Vanadium	25.1	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-66-6	Zinc	44.8	13.5	13.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.168	0.168	mg/kg dry	1	10/26/15 08:59	10/26/15 14:04/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	2.24	2.24	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	Percent Solids	44.6	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	
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BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	22.0	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	7.33	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>17.3</b>	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>24.9</b>	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-93-3	2-Butanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-43-2	Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-88-3	Toluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-47-6	o-Xylene	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-42-5	Styrene	ND	3.67	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

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Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				115 %	70-130		10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				101 %	70-130		10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				81 %	70-130		10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
108-95-2	Phenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

67-72-1	Hexachloroethane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
78-59-1	Isophorone	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	134	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	53.7	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL

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Project Manager: Doug Harm

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Semivolatile Organic Compounds EPA Method SW846 8270

7005-72-3	4-Chlorophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-73-7	Fluorene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-12-7	Anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
129-00-0	Pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	134	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-81-7	<b>bis(2-ethylhexyl)phthalate</b>	<b>65.1</b>	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	J
218-01-9	Chrysene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				68 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	
Surrogate: Phenol-d5				74 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				62 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	

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 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

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 11/03/2015 15:48

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl				67 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				101 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	
Surrogate: Terphenyl-d14				113 %	30-130		10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.7	10.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	53.7	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				84.3 %	30-150		10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				92.6 %	30-150		10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				85.9 %	30-150		10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				92.5 %	30-150		10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>12200</b>	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>3.14</b>	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>61.6</b>	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-43-9	<b>Cadmium</b>	<b>0.958</b>	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-70-2	<b>Calcium</b>	<b>24400</b>	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>20.9</b>	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>11.1</b>	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>19.5</b>	4.84	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>21500</b>	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>17.1</b>	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>15700</b>	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>835</b>	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	

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**Client ID: EP-2**

**Lab ID: 1501878-02 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7440-02-0	Nickel	17.6	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-09-7	Potassium	2220	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-23-5	Sodium	343	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.42	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-62-2	Vanadium	32.8	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-66-6	Zinc	65.7	9.68	9.68	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.121	0.121	mg/kg dry	1	10/26/15 08:59	10/26/15 14:06/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.61	1.61	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	Percent Solids	62.0	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	17.3	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.77	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>14.4</b>	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>24.2</b>	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-43-2	Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-88-3	Toluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-90-7	<b>Chlorobenzene</b>	<b>47.4</b>	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-42-5	Styrene	ND	2.88	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

98-06-6	tert-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				123 %	70-130		10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	
Surrogate: Toluene-d8				99 %	70-130		10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	
Surrogate: Bromofluorobenzene				74 %	70-130		10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

621-64-7	N-Nitroso-di-n-propylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	105	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	42.0	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

84-66-2	Diethyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>42.1</b>	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
120-12-7	Anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
129-00-0	<b>Pyrene</b>	<b>60.6</b>	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-81-7	<b>bis(2-ethylhexyl)phthalate</b>	<b>53.9</b>	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
218-01-9	Chrysene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol

70 % 30-130

10/26/15 06:03

10/27/15 15:14/JMM

EPA 8270

Surrogate: Phenol-d5

76 % 30-130

10/26/15 06:03

10/27/15 15:14/JMM

EPA 8270

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Nitrobenzene-d5				64 %	30-130		10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				65 %	30-130		10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				84 %	30-130		10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	
Surrogate: Terphenyl-d14				96 %	30-130		10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.41	8.41	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	42.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11104-28-2	Aroclor-1221	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				72.9 %	30-150		10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				80.9 %	30-150		10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				77.1 %	30-150		10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				82.7 %	30-150		10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8550</b>	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-39-3	<b>Barium</b>	<b>40.7</b>	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>1660</b>	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>12.4</b>	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>7.57</b>	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>16.8</b>	3.79	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>11500</b>	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>8.40</b>	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>4080</b>	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/03/2015 15:48

**Client ID: EP-3**

**Lab ID: 1501878-03 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

7439-96-5	<b>Manganese</b>	<b>96.3</b>	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>14.6</b>	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1120</b>	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>173</b>	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.89	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>12.8</b>	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>46.2</b>	7.58	7.58	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.0947	0.0947	mg/kg dry	1	10/26/15 08:59	10/26/15 14:08/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.26	1.26	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>79.2</b>	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	
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BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	17.9	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.96	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>10.2</b>	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>25.6</b>	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-43-2	Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-88-3	Toluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-42-5	Styrene	ND	2.98	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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Daniel Miguel, Technical Director



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1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				119 %	70-130		10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				99 %	70-130		10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				76 %	70-130		10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

67-72-1	Hexachloroethane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	112	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	44.9	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

7005-72-3	4-Chlorophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-12-7	Anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
129-00-0	Pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	112	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
218-01-9	Chrysene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol	80 %	30-130	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270
Surrogate: Phenol-d5	86 %	30-130	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270
Surrogate: Nitrobenzene-d5	72 %	30-130	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270

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Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl				74 %	30-130		10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				99 %	30-130		10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	
Surrogate: Terphenyl-d14				123 %	30-130		10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.98	8.98	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	44.9	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				74.9 %	30-150		10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				84.8 %	30-150		10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				82.7 %	30-150		10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				84.2 %	30-150		10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>7630</b>	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.25</b>	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-39-3	Barium	ND	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-41-7	Beryllium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>2000</b>	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>11.8</b>	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>7.33</b>	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>19.8</b>	4.04	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>11500</b>	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>8.19</b>	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>3910</b>	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>101</b>	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	

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 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/03/2015 15:48

**Client ID: EP-4**

**Lab ID: 1501878-04 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

7440-02-0	Nickel	15.6	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-09-7	Potassium	975	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-23-5	Sodium	203	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.02	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-62-2	Vanadium	12.8	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-66-6	Zinc	53.4	8.09	8.09	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.101	0.101	mg/kg dry	1	10/26/15 08:59	10/26/15 14:11/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.35	1.35	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	Percent Solids	74.2	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	
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 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	115	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	38.5	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>3460</b>	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>127</b>	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-43-2	Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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 Project Manager: Doug Harm

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 11/03/2015 15:48

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-88-3	Toluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-42-5	Styrene	ND	19.2	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				119 %	70-130		10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				90 %	70-130		10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				74 %	70-130		10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
108-95-2	Phenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
78-59-1	Isophorone	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	364	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	146	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

7005-72-3	4-Chlorophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-73-7	Fluorene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-12-7	Anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
129-00-0	Pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	364	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
218-01-9	Chrysene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				63 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	
Surrogate: Phenol-d5				71 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				58 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	

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BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/03/2015 15:48

Client ID: EP-5

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl				61 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				81 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	
Surrogate: Terphenyl-d14				102 %	30-130		10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	29.2	29.2	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	146	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U

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Project: 138th Street, Bronx, NY; 10BR188  
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Reported:  
11/03/2015 15:48

Client ID: EP-5

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				72.6 %	30-150		10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				78.2 %	30-150		10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				83.1 %	30-150		10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				84.4 %	30-150		10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>4070</b>	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-39-3	<b>Barium</b>	<b>94.3</b>	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>28800</b>	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>11.9</b>	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>31.5</b>	13.2	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>7500</b>	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>19.7</b>	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>10300</b>	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>421</b>	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/03/2015 15:48

**Client ID: EP-5**

**Lab ID: 1501878-05 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7440-02-0	Nickel	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-09-7	<b>Potassium</b>	<b>966</b>	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>720</b>	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	6.58	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-62-2	Vanadium	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-66-6	Zinc	ND	26.3	26.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.329	0.329	mg/kg dry	1	10/26/15 08:59	10/26/15 14:13/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	4.39	4.39	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>22.8</b>	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



# Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008

Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

## CHAIN OF CUSTODY FORM

CLIENT NAME: Brinkerhoff Environmental Services  
 ADDRESS: 1805 Atlantic Avenue  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE): NJ (NY) PA  
 PROJECT NAME: 138<sup>th</sup> St, Bronx, NY, 10618  
 CONTACT: Doug Harm  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-3666  
 INITIAL RESULTS TO: Doug Harm  
 EMAIL FOR INVOICE: d.harm@brink.env

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1501878  
 P.O.# \_\_\_\_\_

**ANALYSIS**  
 PRES. CODE → \_\_\_\_\_  
 CONT. CODE → \_\_\_\_\_

**COLLECTION INFORMATION**

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH (F)	# OF CONTAINERS	GRAB (G) COMP (C)	ANALYSIS										AAR SAMPLE #					
						TAL	TCL	_____	_____	_____	_____	_____	_____	_____	_____		_____	_____			
EP-1	<u>10/19/15 10:15 + 11:30</u>	<u>S</u>	<u>15</u>	<u>4</u>	<u>G</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														<u>-01</u>
EP-2	<u>10/19/15 10:20 + 11:35</u>	<u>S</u>	<u>15</u>	<u>4</u>	<u>G</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														<u>-02</u>
EP-3	<u>10/19/15 10:27 + 11:40</u>	<u>S</u>	<u>15</u>	<u>4</u>	<u>G</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														<u>-03</u>
EP-4	<u>10/19/15 10:35 + 11:45</u>	<u>S</u>	<u>15</u>	<u>4</u>	<u>G</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														<u>-04</u>
EP-5	<u>10/19/15 10:40 - 11:50</u>	<u>S</u>	<u>15</u>	<u>4</u>	<u>G</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														<u>-05</u>

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER \_\_\_\_\_  
 (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL X EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable  
 COOLER TEMP: 40C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY: Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of: _____ Date Received: <u>10/20/15</u> Time: <u>10:10</u>	RECEIVED BY: Print Name: <u>John Tancuso</u> Signature: <u>John Tancuso</u> Agent of: <u>AAR</u>	RELINQUISHED BY: Print Name: <u>John Tancuso</u> Signature: <u>John Tancuso</u> Agent of: <u>AAR</u> Date Received: <u>10/20/15</u> Time: <u>15:15</u>	RECEIVED BY: Print Name: <u>R. MURIZ</u> Signature: <u>R. MURIZ</u> Agent of: <u>AAR</u>
RELINQUISHED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____	RECEIVED BY: Print Name: _____ Signature: _____ Agent of: _____	RELINQUISHED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____	RECEIVED BY: Print Name: _____ Signature: _____ Agent of: _____

**Bernie O'Gara**

---

**From:** "Monica Norton" <mnorton@brinkenv.com>  
**To:** "Bernie O'Gara" <bernie@accreditedanalytical.com>  
**Cc:** "Sean Harrison" <sharrison@brinkenv.com>  
**Sent:** Wednesday, October 21, 2015 3:55 PM  
**Subject:** Chain of Custody Revision - 255 E. 138th Street - 10BR188

Bernie,

For the COC that was submitted yesterday, October 20<sup>th</sup>, 2015 for the project located at 255 East 138<sup>th</sup> Street, Bronx, NY (Name: 10BR188), please change the sample time for each EP sample to be the second time (i.e. EP-1 sampled at 11:30, EP-2 sampled at 11:35, EP-3 sampled at 11:40, etc...).

Please let me know if you have any other questions.

Thanks!

Monica

---

Monica Norton  
[mnorton@brinkenv.com](mailto:mnorton@brinkenv.com)



1805 Atlantic Avenue  
Manasquan, NJ 08736  
Phone: 732-223-2225  
Fax: 732-223-3666  
Web: [www.BrinkEnv.com](http://www.BrinkEnv.com)



# Accredited Analytical Resources, LLC.

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05 November 2015

AAR Work Order: 1501909

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2015 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/05/2015 14:18

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-6	1501909-01	Soil	10/22/2015 13:57	10/23/2015 14:30
EP-7	1501909-02	Soil	10/22/2015 14:08	10/23/2015 14:30
EP-8	1501909-03	Soil	10/23/2015 08:15	10/23/2015 14:30

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- E Concentration exceeds calibration range
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/05/2015 14:18

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/05/2015 14:18

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	16.7	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.57	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>108</b>	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>26.0</b>	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-93-3	<b>2-Butanone</b>	<b>22.5</b>	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-43-2	Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-88-3	Toluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-42-5	Styrene	ND	2.79	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				118 %	70-130		10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				93 %	70-130		10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				56 %	70-130	*	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
108-95-2	Phenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

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Project: 138th Street, Bronx, NY; 10BR188

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
78-59-1	Isophorone	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	173	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>159</b>	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	69.4	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

84-66-2	Diethyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-73-7	Fluorene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>89.6</b>	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
120-12-7	Anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
129-00-0	Pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	173	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
218-01-9	Chrysene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol

61 % 30-130

10/26/15 06:03

10/27/15 19:08/JMM

EPA 8270

Surrogate: Phenol-d5

77 % 30-130

10/26/15 06:03

10/27/15 19:08/JMM

EPA 8270

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Nitrobenzene-d5				70 %	30-130		10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				67 %	30-130		10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				75 %	30-130		10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	
Surrogate: Terphenyl-d14				85 %	30-130		10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.9	13.9	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	69.4	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U

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**EPA Method SW846 8081/8082**

11104-28-2	Aroclor-1221	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				68.5 %	30-150		10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				70.5 %	30-150		10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				74.2 %	30-150		10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				78.6 %	30-150		10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8930</b>	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.34</b>	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>96.6</b>	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>8470</b>	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>17.0</b>	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>48.8</b>	6.25	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>11200</b>	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>12.5</b>	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>6300</b>	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/05/2015 14:18

**Client ID: EP-6**

**Lab ID: 1501909-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-96-5	<b>Manganese</b>	<b>169</b>	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>15.9</b>	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1140</b>	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>1030</b>	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.12	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>21.5</b>	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>59.6</b>	12.5	12.5	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.156	0.156	mg/kg dry	1	10/26/15 08:59	10/26/15 14:25/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	2.08	2.08	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>48.0</b>	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	
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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	17.7	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.89	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>109</b>	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>22.4</b>	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-93-3	<b>2-Butanone</b>	<b>21.6</b>	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-43-2	Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Volatile Organic Compounds EPA Method SW846 8260</b>										
75-27-4	Bromodichloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-88-3	Toluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-42-5	Styrene	ND	2.94	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/05/2015 14:18

**Client ID: EP-6**  
**Lab ID: 1501909-01RE1 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Volatile Organic Compounds EPA Method SW846 8260</b>										
95-63-6	1,2,4-Trimethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				110 %	70-130		10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				96 %	70-130		10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				51 %	70-130	*	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	7.79	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.60	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>97.8</b>	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-15-0	<b>Carbon disulfide</b>	<b>1.99</b>	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	J
75-09-2	<b>Methylene Chloride</b>	<b>6.88</b>	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-93-3	<b>2-Butanone</b>	<b>16.1</b>	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-43-2	Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-88-3	Toluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-42-5	Styrene	ND	1.30	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

Surrogate: 1,2-Dichloroethane-d4

111 % 70-130

10/26/15 18:22

10/26/15 18:22/SG

EPA 8260

Surrogate: Toluene-d8

102 % 70-130

10/26/15 18:22

10/26/15 18:22/SG

EPA 8260

Surrogate: Bromofluorobenzene

87 % 70-130

10/26/15 18:22

10/26/15 18:22/SG

EPA 8260

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
108-95-2	Phenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
78-59-1	Isophorone	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	119	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>72.9</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	47.6	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

84-66-2	Diethyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-73-7	Fluorene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>153</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
120-12-7	Anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>153</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
129-00-0	<b>Pyrene</b>	<b>145</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>61.0</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>72.9</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
50-32-8	<b>Benzo[a]pyrene</b>	<b>59.0</b>	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				59 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	
Surrogate: Phenol-d5				76 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Nitrobenzene-d5				70 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				66 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				64 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	
Surrogate: Terphenyl-d14				87 %	30-130		10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.51	9.51	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	47.6	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11104-28-2	Aroclor-1221	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				87.2 %	30-150		10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				90.1 %	30-150		10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				89.0 %	30-150		10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				86.1 %	30-150		10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>6100</b>	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.01</b>	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>40.0</b>	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>8140</b>	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>10.1</b>	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>13.6</b>	4.29	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>9210</b>	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>11.8</b>	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>4200</b>	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/05/2015 14:18

**Client ID: EP-7**

**Lab ID: 1501909-02 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

7439-96-5	<b>Manganese</b>	<b>111</b>	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>12.9</b>	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>856</b>	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>401</b>	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.14	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>12.3</b>	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>45.7</b>	8.57	8.57	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.107	0.107	mg/kg dry	1	10/26/15 08:59	10/26/15 14:28/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.43	1.43	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>70.0</b>	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	
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BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	25.5	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	8.51	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>102</b>	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-87-3	Chloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-83-9	Bromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-00-3	Chloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>20.6</b>	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-93-3	2-Butanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-66-3	Chloroform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-43-2	Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-88-3	Toluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-41-4	<b>Ethylbenzene</b>	<b>7.57</b>	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-47-6	o-Xylene	ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-42-5	Styrene	ND	4.26	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-25-2	Bromoform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

98-06-6	tert-Butylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 10/27/15 21:23 10/27/15 21:23/SG EPA 8260

Surrogate: Toluene-d8 99 % 70-130 10/27/15 21:23 10/27/15 21:23/SG EPA 8260

Surrogate: Bromofluorobenzene 78 % 70-130 10/27/15 21:23 10/27/15 21:23/SG EPA 8260

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
108-95-2	Phenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

621-64-7	N-Nitroso-di-n-propylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
78-59-1	Isophorone	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	177	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>76.6</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	70.9	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

121-14-2	2,4-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-73-7	Fluorene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>187</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
120-12-7	Anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>190</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
129-00-0	<b>Pyrene</b>	<b>199</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	177	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>75.9</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>92.9</b>	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol

61 % 30-130

10/26/15 06:03

10/27/15 19:52/JMM

EPA 8270

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Phenol-d5				77 %	30-130		10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				70 %	30-130		10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				67 %	30-130		10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				82 %	30-130		10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	
Surrogate: Terphenyl-d14				92 %	30-130		10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.2	14.2	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	70.9	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

12674-11-2	Aroclor-1016	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				76.5 %	30-150		10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				85.3 %	30-150		10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				87.6 %	30-150		10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				85.9 %	30-150		10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>11800</b>	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>3.29</b>	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>68.6</b>	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>9090</b>	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>19.4</b>	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>10.6</b>	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>25.5</b>	6.38	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>17700</b>	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>25.5</b>	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/05/2015 14:18

**Client ID: EP-8**

**Lab ID: 1501909-03 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-95-4	<b>Magnesium</b>	<b>8200</b>	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>247</b>	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>20.7</b>	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1630</b>	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>717</b>	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.19	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>23.9</b>	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>89.0</b>	12.8	12.8	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.160	0.160	mg/kg dry	1	10/26/15 08:59	10/26/15 14:30/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	2.13	2.13	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>47.0</b>	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



# Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008

Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

## CHAIN OF CUSTODY FORM

CLIENT NAME:	Brinkerhoff Environmental Services		
ADDRESS:	1805 Atlantic Avenue		
CITY:	Manasquan		
STATE:	NJ	ZIP:	08736

STATE AGENCY (CIRCLE ONE)	NJ <u>NY</u> PA
PROJECT NAME:	138 <sup>th</sup> St., Bronx, NY; 10BR 188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

AAR QUOTE #	
AAR WORK ORDER #	<b>1501909</b>
P.O. #	

<b>ANALYSIS</b>	
PRES. CODE →	
CONT. CODE →	

### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (C)	ANALYSIS										AAR SAMPLE #										
							TAL FULL	TCL FULL																			
EP-6	10/22/15 / 13:57	S		4	G		✓	✓																		-01	
EP-7	10/22/15 / 14:08	S		4	G		✓	✓																			-02
EP-8	10/23/15 / 08:15	S		4	G		✓	✓																			-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER \_\_\_\_\_

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL X EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of:	Print Name: <u>J. MUMIZ</u> Signature: <u>[Signature]</u> Agent of:	Print Name: <u>J. MUMIZ</u> Signature: <u>[Signature]</u> Agent of:	Print Name: <u>J. MUMIZ</u> Signature: <u>[Signature]</u> Agent of: <u>AAAR</u>
Date Received: <u>10/23/15</u> Time: <u>10:45</u>	Date Received: <u>10/23/15</u> Time: <u>14:30</u>		
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:



# Accredited Analytical Resources, LLC.

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09 November 2015

AAR Work Order: 1501914

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/26/2015 12:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/09/2015 08:52

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-9	1501914-01	Soil	10/23/2015 11:00	10/26/2015 12:20

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- D Data reported from a dilution
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/09/2015 08:52

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/09/2015 08:52

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Accredited Analytical Resources LLC

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---

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	9.76	16.3	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.25	16.3	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>5.58</b>	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>13.4</b>	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
71-43-2	Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-88-3	Toluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.25	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.25	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
100-42-5	Styrene	ND	1.63	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				123 %	70-130		10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				98 %	70-130		10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				77 %	70-130		10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
108-95-2	Phenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/09/2015 08:52

Client ID: EP-9

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

67-72-1	Hexachloroethane	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
78-59-1	Isophorone	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	121	485	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	48.5	485	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

7005-72-3	4-Chlorophenyl-phenylether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
86-73-7	Fluorene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>72.4</b>	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
120-12-7	Anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>86.0</b>	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
129-00-0	<b>Pyrene</b>	<b>85.5</b>	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	121	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
218-01-9	Chrysene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				60 %	30-130		10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	
Surrogate: Phenol-d5				74 %	30-130		10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				70 %	30-130		10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl		68 %	30-130				10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol		74 %	30-130				10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	
Surrogate: Terphenyl-d14		84 %	30-130				10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.71	9.71	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	48.5	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				77.7 %	30-150		10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				84.9 %	30-150		10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				89.5 %	30-150		10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				105 %	30-150		10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>9500</b>	29.2	29.2	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.35</b>	1.46	1.46	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>57.9</b>	29.2	29.2	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>8950</b>	36.4	36.4	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>16.2</b>	2.92	2.92	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>7.86</b>	7.29	7.29	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>17.3</b>	4.37	4.37	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>15100</b>	36.4	36.4	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>23.1</b>	1.46	1.46	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>7920</b>	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/28/15 12:38/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>278</b>	2.92	2.92	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/09/2015 08:52

**Client ID: EP-9**

**Lab ID: 1501914-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7440-02-0	Nickel	14.7	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-09-7	Potassium	1210	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-23-5	Sodium	237	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.19	4.37	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-62-2	Vanadium	21.2	7.29	7.29	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-66-6	Zinc	52.4	8.75	8.75	mg/kg dry	1	10/27/15 11:02	10/28/15 12:38/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	0.170	0.109	0.109	mg/kg dry	1	10/27/15 09:49	10/27/15 12:39/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.46	1.46	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	Percent Solids	68.6	0.100	0.100	%	1	10/27/15 14:00	10/28/15 09:00/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

### CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE) NJ **(NY)** PA

PROJECT NAME: 138<sup>th</sup> St., Bronx, NY, 10BR188

CONTACT: Doug Harm

OFFICE PHONE #: 732-223-2225

OFFICE FAX #: 732-223-3666

INITIAL RESULTS TO: Doug Harm

EMAIL FOR INVOICE: dharm@brink.env

CLIENT NAME: Brinkerhoff Environmental Services

ADDRESS: 1805 Atlantic Ave

CITY: Manasquan

STATE: NJ ZIP: 08736

AAR QUOTE # 1501914

AAR WORK ORDER #

P.O. #

#### ANALYSIS

#### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (G)	PRES. CODE --										CONT. CODE --										AAR SAMPLE #
EP-9	10/23/15 AM 11:00	S		4	G		TAL buu TCL buu																				-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC **(E = ENCORE)** PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) **STANDARD** 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER

REPORT TYPE: RESULTS ONLY REDUCED **X** FULL EDD EXCEL SPREADSHEET

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of:	Print Name: <u>M. Norton</u> Signature: <u>[Signature]</u> Agent of:	Print Name: <u>[Signature]</u> Signature: <u>[Signature]</u> Agent of:	Print Name: <u>K. MUMIZ</u> Signature: <u>[Signature]</u> Agent of: <u>AAK</u>
Date Received: <u>10/26/15</u> Time: <u>9:50</u>	Date Received: <u>10/26/15</u> Time: <u>12:20</u>		



# Accredited Analytical Resources, LLC.

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10 November 2015

AAR Work Order: 1501923

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/27/2015 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/10/2015 08:23

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-10	1501923-01	Soil	10/26/2015 12:05	10/27/2015 14:15

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- D Data reported from a dilution
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/10/2015 08:23

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/10/2015 08:23

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	9.17	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.06	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>18.3</b>	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>2.92</b>	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	J
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-43-2	Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/10/2015 08:23

Client ID: EP-10  
Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-88-3	Toluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-42-5	Styrene	ND	1.53	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/10/2015 08:23

Client ID: EP-10  
 Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				106 %	70-130		11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				94 %	70-130		11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				86 %	70-130		11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
108-95-2	Phenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/10/2015 08:23

Client ID: EP-10  
 Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Semivolatile Organic Compounds EPA Method SW846 8270</b>										
67-72-1	Hexachloroethane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
78-59-1	Isophorone	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	123	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	49.5	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/10/2015 08:23

Client ID: EP-10  
 Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

7005-72-3	4-Chlorophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-73-7	Fluorene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>133</b>	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
120-12-7	Anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>99.1</b>	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
129-00-0	<b>Pyrene</b>	<b>139</b>	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	123	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>50.0</b>	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				47 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	
Surrogate: Phenol-d5				52 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				41 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorobiphenyl				45 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				54 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	
Surrogate: Terphenyl-d14				60 %	30-130		10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.90	9.90	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	49.5	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/10/2015 08:23

Client ID: EP-10  
 Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11141-16-5	Aroclor-1232	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				74.7 %	30-150		11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				82.1 %	30-150		11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				87.2 %	30-150		11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				94.8 %	30-150		11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8980</b>	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.67</b>	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>51.8</b>	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>7450</b>	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>14.7</b>	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>7.93</b>	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>21.9</b>	4.46	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>13900</b>	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>22.0</b>	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>7100</b>	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>350</b>	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/10/2015 08:23

**Client ID: EP-10**  
**Lab ID: 1501923-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7440-02-0	<b>Nickel</b>	<b>15.5</b>	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1150</b>	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>289</b>	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.23	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>19.2</b>	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>51.0</b>	8.92	8.92	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.111	0.111	mg/kg dry	1	10/30/15 08:00	10/30/15 14:10/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.49	1.49	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>67.3</b>	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

### CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE) NJ **NY** PA

PROJECT NAME: 135<sup>th</sup> Street, Bronx, NY; 10BR 188

CONTACT: Doug Harm

OFFICE PHONE #: 732-223-2225

OFFICE FAX #: 732-223-3666

INITIAL RESULTS TO: Doug Harm

EMAIL FOR INVOICE: dharm@brink.env

CLIENT NAME: Brinkhoff Environmental Services

ADDRESS: 1805 Atlantic Avenue

CITY: Manasquan

STATE: NJ ZIP: 08736

AAR QUOTE #

AAR WORK ORDER # **1501923**

P.O. #

#### ANALYSIS

#### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (G)	PRES. CODE -										CONT. CODE -										AAR SAMPLE #	
EP-10	10/26/15/12:05	S		4	6	✓	✓	TAL full TCL full																				-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) **STANDARD** 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL **X** EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Send invoice to Brinkhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: **Monica Norton** SIGN: **Monica Norton**

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY Print Name: <b>Monica Norton</b> Signature: <i>Monica Norton</i> Agent of:	RECEIVED BY: Print Name: <i>John I...</i> Signature: <i>John I...</i> Agent of: <b>AAR</b> Date Received: <b>10/27/15</b> Time: <b>13:16</b>	RELINQUISHED BY: Print Name: <i>John I...</i> Signature: <i>John I...</i> Agent of: <b>AAR</b>	RECEIVED BY: Print Name: <b>K. MUNIZ</b> Signature: <i>K. Muniz</i> Agent of: <b>AAR</b> Date Received: <b>10/27/15</b> Time: <b>4:15</b>
RELINQUISHED BY	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received:	Time:	Date Received:	Time:





# Accredited Analytical Resources, LLC.

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12 November 2015

AAR Work Order: 1501955

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2015 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/12/2015 09:12

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-11	1501955-01	Soil	10/28/2015 11:20	10/29/2015 15:40

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- D Data reported from a dilution
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/12/2015 09:12

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/12/2015 09:12

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	12.0	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.00	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>15.5</b>	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>36.5</b>	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-43-2	Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-88-3	Toluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-42-5	Styrene	ND	2.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

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Daniel Miguel, Technical Director



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1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/12/2015 09:12

Client ID: EP-11  
Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				113 %	70-130		11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				92 %	70-130		11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				75 %	70-130		11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
108-95-2	Phenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

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 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Semivolatile Organic Compounds EPA Method SW846 8270</b>										
67-72-1	Hexachloroethane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
78-59-1	Isophorone	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	166	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>199</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-57-6	<b>2-Methylnaphthylene</b>	<b>72.7</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>141</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	66.6	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
132-64-9	<b>Dibenzofuran</b>	<b>86.7</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL

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Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

84-66-2	Diethyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>109</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>297</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
120-12-7	<b>Anthracene</b>	<b>72.0</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>167</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
129-00-0	<b>Pyrene</b>	<b>177</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	166	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>85.3</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>103</b>	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol

41 % 30-130

10/30/15 06:08

10/30/15 20:39/JMM

EPA 8270

Surrogate: Phenol-d5

42 % 30-130

10/30/15 06:08

10/30/15 20:39/JMM

EPA 8270

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Nitrobenzene-d5					36 %	30-130	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl					38 %	30-130	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol					46 %	30-130	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	
Surrogate: Terphenyl-d14					42 %	30-130	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.3	13.3	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	66.6	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**EPA Method SW846 8081/8082**

11104-28-2	Aroclor-1221	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				83.6 %	30-150		11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				80.3 %	30-150		11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				86.1 %	30-150		11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				88.6 %	30-150		11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8180</b>	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-39-3	<b>Barium</b>	<b>57.1</b>	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>8690</b>	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>13.4</b>	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>21.0</b>	6.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>13000</b>	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>90.0</b>	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>6420</b>	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/12/2015 09:12

**Client ID: EP-11**

**Lab ID: 1501955-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-96-5	<b>Manganese</b>	<b>158</b>	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>14.2</b>	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1100</b>	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>557</b>	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>18.7</b>	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>48.5</b>	12.0	12.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.150	0.150	mg/kg dry	1	10/30/15 08:00	10/30/15 14:13/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	2.00	2.00	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>50.0</b>	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

### CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE) NJ NY PA

PROJECT NAME: 138<sup>th</sup> Street, Bronx, NY; 10BR188

CONTACT: Doug Harm

OFFICE PHONE # 732-223-2225

OFFICE FAX # 732-223-3666

INITIAL RESULTS TO: Doug Harm

EMAIL FOR INVOICE: dharm@brink.env

CLIENT NAME: Brinkerhoff Environmental Services

ADDRESS: 1805 Atlantic Avenue

CITY: Manasquan

STATE: NJ ZIP: 08736

AAR QUOTE #

AAR WORK ORDER # **1501955**

P.O. #

PRES. CODE →

CONT. CODE →

COLLECTION INFORMATION						ANALYSIS										AAR SAMPLE #		
CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	/												
EP-11	10/28/15 / 11:20	S		4	G	✓	✓	TAL FULL TCL FULL										- 01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY REDUCED FULL X EDD EXCEL SPREADSHEET

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY: Print Name: Monica Norton Signature: Monica Norton Agent of:	RECEIVED BY: Print Name: John Jones Signature: John Jones Agent of: AAR	RELINQUISHED BY: Print Name: John Jones Signature: John Jones Agent of: AAR	RECEIVED BY: Print Name: K. Muniz Signature: K. Muniz Agent of: AAR
Date Received: 10/29/15 Time: 12:45	Date Received: 10/29/15 Time: 15:40		
RELINQUISHED BY: Print Name: Signature: Agent of:	RECEIVED BY: Print Name: Signature: Agent of:	RELINQUISHED BY: Print Name: Signature: Agent of:	RECEIVED BY: Print Name: Signature: Agent of:
Date Received: / / Time:	Date Received: / / Time:	Date Received: / / Time:	Date Received: / / Time:



# Accredited Analytical Resources, LLC.

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16 November 2015

AAR Work Order: 1501974

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/02/2015 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/16/2015 13:27

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-12	1501974-01	Soil	10/30/2015 11:00	11/02/2015 15:50

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/16/2015 13:27

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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---

Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/16/2015 13:27

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	9.46	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.15	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>30.0</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>25.8</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-43-2	Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/16/2015 13:27

Client ID: EP-12  
Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Volatile Organic Compounds EPA Method SW846 8260</b>										
75-27-4	Bromodichloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-88-3	<b>Toluene</b>	<b>2.79</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
100-41-4	<b>Ethylbenzene</b>	<b>4.67</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
108-90-7	Chlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-38-3/106-4	<b>m,p-Xylenes</b>	<b>4.56</b>	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-47-6	<b>o-Xylene</b>	<b>3.88</b>	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
100-42-5	Styrene	ND	1.58	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>2.15</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-49-8	2-Chlorotoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/16/2015 13:27

Client ID: EP-12  
Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

98-06-6	tert-Butylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>3.44</b>	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
135-98-8	sec-Butylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				108 %	70-130		11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				97 %	70-130		11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				75 %	70-130		11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
108-95-2	Phenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

621-64-7	N-Nitroso-di-n-propylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
78-59-1	Isophorone	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	131	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>335</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
106-47-8	4-Chloroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-57-6	<b>2-Methylnaphthylene</b>	<b>75.4</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>242</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	52.5	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
132-64-9	<b>Dibenzofuran</b>	<b>148</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/16/2015 13:27

Client ID: EP-12  
Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Semivolatile Organic Compounds EPA Method SW846 8270</b>										
121-14-2	2,4-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>181</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>489</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>93.2</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>326</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>216</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	131	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>77.1</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>81.3</b>	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

Surrogate: 2-Fluorophenol

56 % 30-130

11/04/15 12:21

11/05/15 21:01/JMM

EPA 8270

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Project: 138th Street, Bronx, NY; 10BR188  
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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Phenol-d5				69 %	30-130		11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				53 %	30-130		11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				53 %	30-130		11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				84 %	30-130		11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
Surrogate: Terphenyl-d14				61 %	30-130		11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.5	10.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	52.5	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**EPA Method SW846 8081/8082**

12674-11-2	Aroclor-1016	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				94.3 %	30-150		11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				98.2 %	30-150		11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				86.8 %	30-150		11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				110 %	30-150		11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8820</b>	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.65</b>	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>50.9</b>	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>4870</b>	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>14.0</b>	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>23.2</b>	4.73	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>13700</b>	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>22.4</b>	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/16/2015 13:27

**Client ID: EP-12**  
**Lab ID: 1501974-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-95-4	<b>Magnesium</b>	<b>5430</b>	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>161</b>	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>15.8</b>	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1010</b>	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>395</b>	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.37	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>15.9</b>	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>60.7</b>	9.46	9.46	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.118	0.118	mg/kg dry	1	11/04/15 07:58	11/04/15 14:57/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.58	1.58	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>63.4</b>	0.100	0.100	%	1	11/03/15 08:57	11/04/15 10:35/CLD	SM 2540 G	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



# Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008

Tel. 732-969-6112 FAX 732-541-1383

WEB: WWW.ACCREDITEDANALYTICAL.COM

## CHAIN OF CUSTODY FORM

CLIENT NAME: Brinkerhoff Environmental Services  
 ADDRESS: 1805 Atlantic Avenue  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE): NJ  NY  PA   
 PROJECT NAME: 138th Street, Bronx, NY; 1062188  
 CONTACT: Doug Harm  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-3666  
 INITIAL RESULTS TO: Doug Harm  
 EMAIL FOR INVOICE: dharm@brink-env

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1501974  
 P.O. # 10BR188

ANALYSIS  
 PRES. CODE → \_\_\_\_\_  
 CONT. CODE → \_\_\_\_\_

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	ANALYSIS										AAR SAMPLE #			
						1	2	3	4	5	6	7	8	9	10				
<u>EP-12</u>	<u>10/30/15/11:00 AM</u>	<u>S</u>		<u>4</u>	<u>G</u>	<u>✓</u>	<u>✓</u>												<u>-01</u>

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC B = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO3 3 = H2SO4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER \_\_\_\_\_  
 (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL  EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable. COOLER TEMP: 4C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY: Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of: _____ Date Received: <u>11/2/15</u> Time: <u>13:40</u>	RECEIVED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____	RELINQUISHED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____	RECEIVED BY: Print Name: <u>K. Muniz</u> Signature: <u>K. Muniz</u> Agent of: <u>AAR</u> Date Received: <u>11/2/15</u> Time: <u>15:50</u>
RELINQUISHED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____	RECEIVED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____	RELINQUISHED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____	RECEIVED BY: Print Name: _____ Signature: _____ Agent of: _____ Date Received: _____ Time: _____



# Accredited Analytical Resources, LLC.

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18 November 2015

AAR Work Order: 1502015

Doug Harm

BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/05/2015 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel

Technical Director

New Jersey Certification Number: 12007

New York Certification Number: 11109

Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/18/2015 15:39

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-13	1502015-01	Soil	11/04/2015 08:50	11/05/2015 16:25
EP-9b	1502015-02	Soil	11/04/2015 13:15	11/05/2015 16:25

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/18/2015 15:39

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/18/2015 15:39

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	48.1	80.1	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	16.0	80.1	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>71.9</b>	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-87-3	Chloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-83-9	Bromomethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-00-3	Chloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
78-93-3	2-Butanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
67-66-3	Chloroform	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
71-43-2	Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/18/2015 15:39

Client ID: EP-13  
 Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-88-3	Toluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-38-3/106-4m,p-Xylenes		ND	16.0	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-47-6	o-Xylene	ND	16.0	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
100-42-5	Styrene	ND	8.01	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-25-2	Bromoform	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/18/2015 15:39

Client ID: EP-13  
Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				103 %	70-130		11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				99 %	70-130		11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				89 %	70-130		11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
108-95-2	Phenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



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Project Manager: Doug Harm

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11/18/2015 15:39

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
78-59-1	Isophorone	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	403	1620	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>163</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	162	1620	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

84-66-2	Diethyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
86-73-7	Fluorene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>1240</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>273</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>1120</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>1540</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	403	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>536</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>638</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>361</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>371</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
50-32-8	<b>Benzo[a]pyrene</b>	<b>421</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>243</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
191-24-2	<b>Benzo[ghi]perylene</b>	<b>272</b>	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J

Surrogate: 2-Fluorophenol

81 % 30-130

11/10/15 11:59

11/11/15 18:39/JMM

EPA 8270

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Phenol-d5		92 %		30-130			11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5		86 %		30-130			11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl		87 %		30-130			11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol		101 %		30-130			11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
Surrogate: Terphenyl-d14		124 %		30-130			11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	32.3	32.3	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	162	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

12674-11-2	Aroclor-1016	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				102 %	30-150		11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				85.8 %	30-150		11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				90.3 %	30-150		11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				83.5 %	30-150		11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>3570</b>	97.1	97.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-36-0	Antimony	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	4.85	4.85	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-39-3	Barium	ND	97.1	97.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-41-7	Beryllium	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>22800</b>	121	121	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-47-3	Chromium	ND	9.71	9.71	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-48-4	Cobalt	ND	24.3	24.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>27.3</b>	14.6	14.6	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>9180</b>	121	121	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>10.2</b>	4.85	4.85	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/18/2015 15:39

**Client ID: EP-13**  
**Lab ID: 1502015-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-95-4	<b>Magnesium</b>	<b>10700</b>	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>211</b>	9.71	9.71	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-02-0	Nickel	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-09-7	<b>Potassium</b>	<b>762</b>	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7782-49-2	Selenium	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-22-4	Silver	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>3730</b>	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-28-0	Thallium	ND	7.28	14.6	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-62-2	Vanadium	ND	24.3	24.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-66-6	<b>Zinc</b>	<b>166</b>	29.1	29.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.364	0.364	mg/kg dry	1	11/09/15 07:46	11/09/15 15:32/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	4.85	4.85	mg/kg dry	1	11/10/15 10:00	11/11/15 16:14/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>20.6</b>	0.100	0.100	%	1	11/09/15 12:00	11/10/15 10:30/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	13.8	22.9	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.59	22.9	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
67-64-1	Acetone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
71-43-2	Benzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-88-3	Toluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.59	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.59	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
100-42-5	Styrene	ND	2.29	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
98-82-8	<b>Isopropylbenzene</b>	<b>2.59</b>	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
103-65-1	<b>n-Propyl Benzene</b>	<b>4.54</b>	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
108-86-1	Bromobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/18/2015 15:39

Client ID: EP-9b  
Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

98-06-6	tert-Butylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>4.17</b>	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
135-98-8	sec-Butylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				107 %	70-130		11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				97 %	70-130		11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				83 %	70-130		11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
108-95-2	Phenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
78-59-1	Isophorone	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	143	574	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>70.7</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>107</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	57.4	574	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

121-14-2	2,4-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>103</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>1240</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>250</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>1020</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>1440</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>498</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>664</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>342</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>320</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
50-32-8	<b>Benzo[a]pyrene</b>	<b>393</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>209</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>97.7</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
191-24-2	<b>Benzo[ghi]perylene</b>	<b>244</b>	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/18/2015 15:39

Client ID: EP-9b  
 Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: 2-Fluorophenol				85 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
Surrogate: Phenol-d5				94 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				90 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				91 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				99 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
Surrogate: Terphenyl-d14				127 %	30-130		11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method: EPA 3550B

319-84-6	alpha-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	11.5	11.5	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL

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11/18/2015 15:39

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

8001-35-2	Toxaphene	ND	57.4	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				99.5 %	30-150		11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				84.4 %	30-150		11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				90.2 %	30-150		11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				81.1 %	30-150		11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>9520</b>	34.5	34.5	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.41</b>	1.72	1.72	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>63.8</b>	34.5	34.5	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>10200</b>	43.1	43.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>16.6</b>	3.45	3.45	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-48-4	Cobalt	ND	8.62	8.62	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>23.2</b>	5.17	5.17	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>15400</b>	43.1	43.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>31.5</b>	1.72	1.72	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>7330</b>	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>274</b>	3.45	3.45	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>14.7</b>	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1490</b>	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>447</b>	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.59	5.17	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>25.3</b>	8.62	8.62	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>62.4</b>	10.3	10.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.129	0.129	mg/kg dry	1	11/09/15 07:46	11/09/15 15:34/PRT	EPA 7471	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: E. 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	<b>Reported:</b> 11/18/2015 15:39
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**Client ID: EP-9b**  
**Lab ID: 1502015-02 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Wet Chemistry**

Sample Prepared by Method: EPA 9010C

NA	Cyanide (total)	ND	1.72	1.72	mg/kg dry	1	11/10/15 10:00	11/11/15 16:14/NNM	EPA 9014	
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Sample Prepared by Method: Percent Solids

NA	<b>Percent Solids</b>	<b>58.0</b>	0.100	0.100	%	1	11/09/15 12:00	11/10/15 10:30/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

### CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE) NJ NY PA

PROJECT NAME: E. 138<sup>th</sup> Street, Bronx NY, 1082188

CONTACT: Doug Harm

OFFICE PHONE #: 732-223-2225

OFFICE FAX #: 732-223-3066

INITIAL RESULTS TO: Doug Harm

EMAIL FOR INVOICE: dharm@bnk.env

CLIENT NAME: Brinkerhoff Environmental

ADDRESS: 1805 Atlantic Avenue

CITY: Manasquan

STATE: NJ ZIP: 08736

AAR QUOTE #

AAR WORK ORDER # **1502015**

P.O.# 1082188

### ANALYSIS

### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (C)	ANALYSIS										AAR SAMPLE #	
							TAL FULL	TCL FULL										
EP-13	11/4/15 08:50	S		4	G		✓	✓										-01
EP-96	11/4/15 13:15	S		4	G		✓	✓										-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER

REPORT TYPE: RESULTS ONLY REDUCED FULL EDD EXCEL SPREADSHEET

COMMENTS: Send invoice to Brinkerhoff; NYS DEC Category B data deliverable

COOLER TEMP: 40C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Print Name: <u>Monica Norton</u>	Signature: <u>Monica Norton</u>	Print Name: <u>S. Muniz</u>	Signature: <u>[Signature]</u>	Print Name: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Print Name: <u>K. Muniz</u>	Signature: <u>[Signature]</u>
Agent of:		Agent of:		Agent of:		Agent of:	AAR
Date Received: <u>11/05/15</u>	Time: <u>11:40</u>	Date Received: <u>11/5/15</u>	Time: <u>1625</u>	Date Received:	Time:	Date Received:	Time:





# Accredited Analytical Resources, LLC.

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17 November 2015

AAR Work Order: 1502031

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2015 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/17/2015 15:37

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-14	1502031-01	Soil	11/09/2015 10:40	11/10/2015 14:15
EP-15	1502031-02	Soil	11/09/2015 10:50	11/10/2015 14:15
EP-16	1502031-03	Soil	11/09/2015 11:10	11/10/2015 14:15

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- E Concentration exceeds calibration range
- B Indicates compound found in associated blank
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/17/2015 15:37

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/17/2015 15:37

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	13.6	22.7	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.54	22.7	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>13.4</b>	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>3.22</b>	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	B, J
156-60-5	trans-1,2-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
71-43-2	Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-14  
 Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-88-3	Toluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.54	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.54	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
100-42-5	Styrene	ND	2.27	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-14  
 Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				107 %	70-130		11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				105 %	70-130		11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				92 %	70-130		11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
108-95-2	Phenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-14  
 Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Semivolatile Organic Compounds EPA Method SW846 8270</b>										
67-72-1	Hexachloroethane	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
78-59-1	Isophorone	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	132	529	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>252</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-57-6	<b>2-Methylnaphthylene</b>	<b>87.4</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>139</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	52.9	529	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
132-64-9	<b>Dibenzofuran</b>	<b>130</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





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1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

84-66-2	Diethyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>204</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>1370</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>335</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
84-74-2	Di-n-butyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>1440</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>1100</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	132	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>539</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
117-81-7	<b>bis(2-ethylhexyl)phthalate</b>	<b>193</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
218-01-9	<b>Chrysene</b>	<b>526</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>492</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>399</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
50-32-8	<b>Benzo[a]pyrene</b>	<b>504</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>202</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>111</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
191-24-2	<b>Benzo[ghi]perylene</b>	<b>201</b>	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J

Surrogate: 2-Fluorophenol 68 % 30-130 11/13/15 05:53 11/14/15 01:44/JMM EPA 8270

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Daniel Miguel, Technical Director



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1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-14  
Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Phenol-d5				87 %	30-130		11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				66 %	30-130		11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				63 %	30-130		11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				95 %	30-130		11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
Surrogate: Terphenyl-d14				67 %	30-130		11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.6	10.6	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	52.9	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U

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**EPA Method SW846 8081/8082**

12674-11-2	Aroclor-1016	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				81.9 %	30-150		11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				78.2 %	30-150		11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				87.5 %	30-150		11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				83.0 %	30-150		11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8800</b>	31.7	31.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>2.88</b>	1.59	1.59	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>65.7</b>	31.7	31.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>9570</b>	39.7	39.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>15.8</b>	3.17	3.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.94	7.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>30.7</b>	4.76	4.76	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>15300</b>	39.7	39.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>58.0</b>	1.59	1.59	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/17/2015 15:37

**Client ID: EP-14**

**Lab ID: 1502031-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

7439-95-4	<b>Magnesium</b>	<b>7320</b>	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>239</b>	3.17	3.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>15.3</b>	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1510</b>	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>412</b>	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.38	4.76	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>21.2</b>	7.94	7.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>107</b>	9.52	9.52	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.119	0.119	mg/kg dry	1	11/11/15 11:28	11/11/15 15:13/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.59	1.59	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>63.0</b>	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	
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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	10.3	17.2	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.45	17.2	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>344</b>	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-15-0	<b>Carbon disulfide</b>	<b>2.59</b>	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	J
75-09-2	Methylene Chloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
78-93-3	<b>2-Butanone</b>	<b>84.8</b>	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
71-43-2	Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-15  
 Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-88-3	Toluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.45	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.45	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
100-42-5	Styrene	ND	1.72	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-15  
Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	1,2,4-Trimethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				110 %	70-130		11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				99 %	70-130		11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				50 %	70-130	*	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
108-95-2	Phenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

67-72-1	Hexachloroethane	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
78-59-1	Isophorone	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	143	574	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	57.4	574	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-15  
Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
86-73-7	Fluorene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>338</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>84.2</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>532</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>453</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>226</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>236</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>249</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>200</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
50-32-8	<b>Benzo[a]pyrene</b>	<b>245</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>87.9</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
191-24-2	<b>Benzo[ghi]perylene</b>	<b>86.1</b>	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				68 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
Surrogate: Phenol-d5				86 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Nitrobenzene-d5				66 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				64 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				97 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
Surrogate: Terphenyl-d14				69 %	30-130		11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	11.5	11.5	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	57.4	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-15  
 Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**EPA Method SW846 8081/8082**

11104-28-2	Aroclor-1221	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				77.4 %	30-150		11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				72.7 %	30-150		11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				88.1 %	30-150		11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				89.6 %	30-150		11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>12500</b>	34.5	34.5	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>4.25</b>	1.72	1.72	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>72.1</b>	34.5	34.5	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>9880</b>	43.1	43.1	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>21.2</b>	3.45	3.45	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-48-4	Cobalt	ND	8.62	8.62	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>35.1</b>	5.17	5.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>21600</b>	43.1	43.1	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>74.3</b>	1.72	1.72	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>7480</b>	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/17/2015 15:37

**Client ID: EP-15**  
**Lab ID: 1502031-02 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

7439-96-5	<b>Manganese</b>	<b>298</b>	3.45	3.45	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>16.5</b>	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1690</b>	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>1130</b>	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.59	5.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>29.7</b>	8.62	8.62	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>130</b>	10.3	10.3	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.129	0.129	mg/kg dry	1	11/11/15 11:28	11/11/15 15:15/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.72	1.72	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>58.0</b>	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	
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BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-15  
Lab ID: 1502031-02RE1 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	17.4	29.0	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.81	29.0	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>36.0</b>	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-15-0	<b>Carbon disulfide</b>	<b>9.14</b>	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	
75-09-2	Methylene Chloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
71-43-2	Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-15  
 Lab ID: 1502031-02RE1 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Volatile Organic Compounds EPA Method SW846 8260</b>										
75-27-4	Bromodichloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-88-3	Toluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.81	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.81	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
100-42-5	Styrene	ND	2.90	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/17/2015 15:37

**Client ID: EP-15**  
**Lab ID: 1502031-02RE1 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Volatile Organic Compounds EPA Method SW846 8260</b>										
95-63-6	1,2,4-Trimethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				116 %	70-130		11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				102 %	70-130		11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				68 %	70-130	*	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-16  
 Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	7.13	11.9	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.38	11.9	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>50.2</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
71-43-2	Benzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-88-3	Toluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
100-41-4	<b>Ethylbenzene</b>	<b>3.69</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
108-90-7	Chlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-38-3/106-4	<b>m,p-Xylenes</b>	<b>6.90</b>	2.38	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-47-6	<b>o-Xylene</b>	<b>13.1</b>	2.38	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
100-42-5	Styrene	ND	1.19	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
98-82-8	<b>Isopropylbenzene</b>	<b>9.39</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
103-65-1	<b>n-Propyl Benzene</b>	<b>18.3</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
108-86-1	Bromobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>29.7</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-49-8	2-Chlorotoluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-16  
Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

98-06-6	<b>tert-Butylbenzene</b>	<b>1.35</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	J
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>19.0</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
135-98-8	<b>sec-Butylbenzene</b>	<b>5.83</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
99-87-6	<b>p-Isopropyltoluene</b>	<b>6.88</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
541-73-1	1,3-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
104-51-8	<b>n-Butyl Benzene</b>	<b>12.6</b>	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-50-1	1,2-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				116 %	70-130		11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
Surrogate: Toluene-d8				98 %	70-130		11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
Surrogate: Bromofluorobenzene				106 %	70-130		11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



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 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-16  
 Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

106-44-5	3 & 4-Methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	98.6	395	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>521</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
106-47-8	4-Chloroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-57-6	<b>2-Methylnaphthylene</b>	<b>706</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
77-47-4	Hexachlorocyclopentadiene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
208-96-8	<b>Acenaphthylene</b>	<b>47.8</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
99-09-2	3-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>310</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
51-28-5	2,4-Dinitrophenol	ND	39.5	395	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
132-64-9	<b>Dibenzofuran</b>	<b>162</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-16  
 Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

606-20-2	2,6-Dinitrotoluene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>336</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
100-01-6	4-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>2310</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>514</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
84-74-2	<b>Di-n-butyl phthalate</b>	<b>124</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
206-44-0	<b>Fluoranthene</b>	<b>2500</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>2170</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	98.6	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>1030</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
117-81-7	<b>bis(2-ethylhexyl)phthalate</b>	<b>61.7</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
218-01-9	<b>Chrysene</b>	<b>1090</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>956</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>988</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
50-32-8	<b>Benzo[a]pyrene</b>	<b>1030</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>303</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>128</b>	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J

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1805 Atlantic Ave.  
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Project: 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/17/2015 15:37

Client ID: EP-16  
Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Semivolatile Organic Compounds EPA Method SW846 8270**

191-24-2	<b>Benzo[ghi]perylene</b>	277	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: 2-Fluorophenol			69 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: Phenol-d5			85 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: Nitrobenzene-d5			56 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: 2-Fluorobiphenyl			60 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: 2,4,6-Tribromophenol			87 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
	Surrogate: Terphenyl-d14			63 %	30-130		11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	7.91	7.91	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U

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**EPA Method SW846 8081/8082**

5566-34-7	gamma-Chlordane	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	39.5	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
<i>Surrogate: Tetrachloro-m-xylene</i>				77.1 %	30-150		11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	
<i>Surrogate: Tetrachloro-m-xylene</i>				76.1 %	30-150		11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				84.5 %	30-150		11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	
<i>Surrogate: Decachlorobiphenyl</i>				99.3 %	30-150		11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/17/2015 15:37

Client ID: EP-16  
 Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>11300</b>	23.8	23.8	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>3.66</b>	1.19	1.19	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>79.6</b>	23.8	23.8	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>13400</b>	29.7	29.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>21.4</b>	2.38	2.38	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-48-4	<b>Cobalt</b>	<b>8.44</b>	5.94	5.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-50-8	<b>Copper</b>	<b>61.0</b>	3.56	3.56	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>22200</b>	29.7	29.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>149</b>	1.19	1.19	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-95-4	<b>Magnesium</b>	<b>6940</b>	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>412</b>	2.38	2.38	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>14.7</b>	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1580</b>	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>173</b>	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.78	3.56	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>32.0</b>	5.94	5.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>158</b>	7.13	7.13	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	<b>Mercury</b>	<b>0.158</b>	0.0891	0.0891	mg/kg dry	1	11/11/15 11:28	11/11/15 15:17/PRT	EPA 7471	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	<b>Reported:</b> 11/17/2015 15:37
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**Client ID: EP-16**  
**Lab ID: 1502031-03 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Wet Chemistry**

Sample Prepared by Method: EPA 9010C

NA	Cyanide (total)	ND	1.19	1.19	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
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Sample Prepared by Method: Percent Solids

NA	<b>Percent Solids</b>	<b>84.2</b>	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	
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Daniel Miguel, Technical Director





# Accredited Analytical Resources, LLC.

20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

## CHAIN OF CUSTODY FORM

CLIENT NAME: Brinkerhoff Environmental Services  
 ADDRESS: 1805 Atlantic Avenue  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE): NJ (NY) PA  
 PROJECT NAME: 138th Street, Bronx, NY, 10628  
 CONTACT: Doug Harm + Sean Harrison  
 OFFICE PHONE #: 732-223-2225  
 OFFICE FAX #: 732-223-3666  
 INITIAL RESULTS TO: Doug Harm and Sharrison@  
 EMAIL FOR INVOICE: dharm@brink.env brnk.env

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1502031  
 P.O. # 106288

### ANALYSIS

COLLECTION INFORMATION						ANALYSIS										AAR SAMPLE #
CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	/										
EP-14	11/9/15/10:40	S		4	G	TAL full										-01
EP-15	11/9/15/10:50	S		4	G	TCL full										-02
EP-16	11/9/15/11:10	S		4	G											-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 2 week  
 (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL X EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable  
 COOLER TEMP: 49

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of: _____ Date Received: <u>11/10/15</u> Time: <u>10:15</u>	Print Name: <u>John Jensen</u> Signature: <u>[Signature]</u> Agent of: <u>AAR</u>	Print Name: <u>John Jensen</u> Signature: <u>[Signature]</u> Agent of: <u>AAR</u> Date Received: <u>11/10/15</u> Time: <u>14:50</u>	Print Name: <u>K. MUNIZ</u> Signature: <u>[Signature]</u> Agent of: <u>AAR</u>
Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: /	Print Name: _____ Signature: _____ Agent of: _____	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: /	Print Name: _____ Signature: _____ Agent of: _____



# Accredited Analytical Resources, LLC.

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25 November 2015

AAR Work Order: 1502101

Doug Harm

BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/18/2015 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel

Technical Director

New Jersey Certification Number: 12007

New York Certification Number: 11109

Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/25/2015 14:41

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-17	1502101-01	Soil	11/17/2015 11:50	11/18/2015 16:10

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- J Indicates estimated value for TICs and all results when detected below the RL
- E Concentration exceeds calibration range
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

**Reported:**  
11/25/2015 14:41

### Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Total Cyanide by EPA 9010C & EPA 9014  
Percent Solids by SM 2540 G

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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

**Reported:**

11/25/2015 14:41

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Project Manager: Doug Harm

Reported:

11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

Sample Prepared by Method: EPA 5035A

107-02-8	Acrolein	ND	25.0	41.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	8.35	41.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
67-64-1	<b>Acetone</b>	<b>73.0</b>	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-87-3	Chloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-83-9	Bromomethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-00-3	Chloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-09-2	<b>Methylene Chloride</b>	<b>6.26</b>	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	J
156-60-5	trans-1,2-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
78-93-3	2-Butanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
67-66-3	Chloroform	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
71-43-2	Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**Volatile Organic Compounds EPA Method SW846 8260**

75-27-4	Bromodichloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-88-3	Toluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	8.35	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-47-6	o-Xylene	ND	8.35	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
100-42-5	Styrene	ND	4.17	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-25-2	Bromoform	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Volatile Organic Compounds EPA Method SW846 8260**

95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>6.72</b>	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	J
135-98-8	sec-Butylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				119 %	70-130		11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	
<i>Surrogate: Toluene-d8</i>				109 %	70-130		11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	
<i>Surrogate: Bromofluorobenzene</i>				98 %	70-130		11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	

**Semivolatile Organic Compounds EPA Method SW846 8270**

Sample Prepared by Method: EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
108-95-2	Phenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U

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Daniel Miguel, Technical Director





BRINKERHOFF ENVIRONMENTAL

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CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Semivolatile Organic Compounds EPA Method SW846 8270

67-72-1	Hexachloroethane	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
78-59-1	Isophorone	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
65-85-0	<b>Benzoic acid</b>	<b>314</b>	157	628	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
111-91-1	bis(2-chloroethoxy)methane	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-20-3	<b>Naphthalene</b>	<b>132</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
83-32-9	<b>Acenaphthene</b>	<b>112</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	62.8	628	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

Reported:  
 11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
<b>Accredited Analytical Resources LLC</b>										
<b>Semivolatile Organic Compounds EPA Method SW846 8270</b>										
84-66-2	Diethyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
86-73-7	<b>Fluorene</b>	<b>91.4</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
85-01-8	<b>Phenanthrene</b>	<b>438</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
120-12-7	<b>Anthracene</b>	<b>106</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
206-44-0	<b>Fluoranthene</b>	<b>580</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
129-00-0	<b>Pyrene</b>	<b>431</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	157	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
56-55-3	<b>Benzo[a]anthracene</b>	<b>231</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
218-01-9	<b>Chrysene</b>	<b>239</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
205-99-2	<b>Benzo[b]fluoranthene</b>	<b>224</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
207-08-9	<b>Benzo[k]fluoranthene</b>	<b>201</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
50-32-8	<b>Benzo[a]pyrene</b>	<b>247</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>132</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>70.0</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
191-24-2	<b>Benzo[ghi]perylene</b>	<b>130</b>	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				70 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	

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**Semivolatile Organic Compounds EPA Method SW846 8270**

Surrogate: Phenol-d5				85 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
Surrogate: Nitrobenzene-d5				66 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
Surrogate: 2-Fluorobiphenyl				62 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
Surrogate: 2,4,6-Tribromophenol				100 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
Surrogate: Terphenyl-d14				63 %	30-130		11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	

**EPA Method SW846 8081/8082**

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	12.6	12.6	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	62.8	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U

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1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
Project Manager: Doug Harm

Reported:  
11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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Accredited Analytical Resources LLC

**EPA Method SW846 8081/8082**

12674-11-2	Aroclor-1016	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				78.8 %	30-150		11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	
Surrogate: Tetrachloro-m-xylene				85.4 %	30-150		11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				74.3 %	30-150		11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	
Surrogate: Decachlorobiphenyl				82.6 %	30-150		11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method: EPA 3050B

7429-90-5	<b>Aluminum</b>	<b>8580</b>	37.7	37.7	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-36-0	Antimony	ND	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-38-2	<b>Arsenic</b>	<b>3.28</b>	1.89	1.89	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-39-3	<b>Barium</b>	<b>60.1</b>	37.7	37.7	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-70-2	<b>Calcium</b>	<b>10200</b>	47.2	47.2	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-47-3	<b>Chromium</b>	<b>15.0</b>	3.77	3.77	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-48-4	Cobalt	ND	9.43	9.43	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-50-8	<b>Copper</b>	<b>21.7</b>	5.66	5.66	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-89-6	<b>Iron</b>	<b>19200</b>	47.2	47.2	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-92-1	<b>Lead</b>	<b>39.2</b>	1.89	1.89	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: E. 138th Street, Bronx, NY; 10BR188  
 Project Manager: Doug Harm

**Reported:**  
 11/25/2015 14:41

**Client ID: EP-17**

**Lab ID: 1502101-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

7439-95-4	<b>Magnesium</b>	<b>7530</b>	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-96-5	<b>Manganese</b>	<b>234</b>	3.77	3.77	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-02-0	<b>Nickel</b>	<b>13.2</b>	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-09-7	<b>Potassium</b>	<b>1190</b>	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7782-49-2	Selenium	ND	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-23-5	<b>Sodium</b>	<b>1140</b>	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.83	5.66	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-62-2	<b>Vanadium</b>	<b>20.7</b>	9.43	9.43	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-66-6	<b>Zinc</b>	<b>55.7</b>	11.3	11.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	

**Total Mercury by SW846 7471**

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.142	0.142	mg/kg dry	1	11/23/15 09:25	11/23/15 15:52/PRT	EPA 7471	
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**Wet Chemistry**

Sample Prepared by Method:EPA 9010C

NA	Cyanide (total)	ND	1.89	1.89	mg/kg dry	1	11/23/15 08:59	11/23/15 15:30/NNM	EPA 9014	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>53.0</b>	0.100	0.100	%	1	11/23/15 10:00	11/24/15 09:30/CLD	SM 2540 G	
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Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



**Accredited Analytical Resources, LLC.**

20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

**CHAIN OF CUSTODY FORM**

CLIENT NAME: Brinkerhoff Environmental Services  
 ADDRESS: 1805 Atlantic Avenue  
 CITY: Manasquan  
 STATE: NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE) NJ (NY) PA  
 PROJECT NAME: E 138th Street, Bronx, NY; 10BR188  
 CONTACT: Doug Harm + Sean Harrison  
 OFFICE PHONE # 732-223-2225  
 OFFICE FAX # 732-223-3666  
 INITIAL RESULTS TO: Doug Harm + Sean Harrison  
 EMAIL FOR INVOICE: dharm@brink.env + sharrison@brink.env

AAR QUOTE # \_\_\_\_\_  
 AAR WORK ORDER # 1502101  
 P.O. # 10BR188

**ANALYSIS**

PRES. CODE - \_\_\_\_\_  
 CONT. CODE - \_\_\_\_\_

**COLLECTION INFORMATION**

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	ANALYSIS										AAR SAMPLE #			
						TAL FULL	TCL FULL												
EP-17	11/17/15 / 11:50	S		4	G														-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER D = OIL K = SOLID X = OTHER  
 CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER  
 TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week  
 REPORT TYPE: RESULTS ONLY REDUCED FULL X EDD EXCEL SPREADSHEET

COMMENTS: NYSDEC Category B data deliverable. Please complete hardcopy report by November 25th, 2015. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION. INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: <u>Monica Norton</u> Signature: <u>Monica Norton</u> Agent of: _____ Date Received: <u>11/18/15</u> Time: <u>12:20</u>	Print Name: <u>[Signature]</u> Signature: _____ Agent of: _____ Date Received: _____ Time: _____	Print Name: <u>[Signature]</u> Signature: _____ Agent of: _____ Date Received: <u>11/18/15</u> Time: <u>1610</u>	Print Name: <u>K. Muniz</u> Signature: <u>[Signature]</u> Agent of: <u>AAR</u> Date Received: _____ Time: _____
Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____	Print Name: _____ Signature: _____ Agent of: _____ Date Received: / / Time: _____



## **ANALYTICAL REPORT**

for

### BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502312

<u>Client Sample ID:</u>	<u>Lab Sample ID:</u>
Cr-1	1502312-01
Cr-2	1502312-02
Cr-3	1502312-03

This data has been reviewed and accepted by:

---

Daniel Miguel  
Technical Director

01/08/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



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## Case Narrative

### Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/22/2015 1:50:00 PM.

All analyses were performed within the required holding time.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel  
Technical Director

## Methodology Summary

### **Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

### **Wet Chemistry:**

Percent Solids by SM 2540 G  
Hexavalent Chromium by 3060A/7196A



## Internal Chain of Custody

---

<b>1502312-01 (A)</b>	<i>Out</i>	<i>In</i>
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW
<b>1502312-02 (A)</b>	<i>Out</i>	<i>In</i>
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW
<b>1502312-03 (A)</b>	<i>Out</i>	<i>In</i>
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW

---



## Condition of Samples on Receipt

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

**Work Order:** 1502312

Received: 12/22/15 13:50

**Cooler**

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes



20 PERSHING AVE, CARTERET, NJ 07008  
 Tel. 732-969-6112 FAX 732-541-1383  
 WEB: WWW.ACCREDITEDANALYTICAL.COM

### CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE): NJ **(NY)** PA

PROJECT NAME: 255 East 138<sup>th</sup> Street, Bronx, NY

CONTACT: Doug Haron / Sean Harrison

OFFICE PHONE #: 732-223-2225

OFFICE FAX #: 732-223-3666

INITIAL RESULTS TO: DH/SH

EMAIL FOR INVOICE: dharon@brinkenv.com

CLIENT NAME: Brinkerhoff Environmental

ADDRESS: 1805 Atlantic Ave

CITY: Manasquan

STATE: New Jersey ZIP: 08736

AAR QUOTE #: \_\_\_\_\_

AAR WORK ORDER #: **1502312**

P.O. #: **10BR188**

#### COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G)	COMP (C)	ANALYSIS		AAR SAMPLE #
Cr-1	12/21/15 11:38	S	1	6	X	X	Hex (Hexan) Tri (Triom)		-01
Cr-2	12/21/15 11:42	S	1	6	X	X			-02
Cr-3	12/21/15 11:46	S	1	6	X	X			-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO<sub>3</sub> 3 = H<sub>2</sub>SO<sub>4</sub> 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD **5 DAY** 72 HRS. 48 HRS. 24 HRS. OTHER \_\_\_\_\_

REPORT TYPE: RESULTS ONLY \_\_\_\_\_ REDUCED \_\_\_\_\_ FULL **X** EDD \_\_\_\_\_ EXCEL SPREADSHEET \_\_\_\_\_

COMMENTS: Please provide NYSDEC Category B data deliverable. Hard copy report due 1/11/2016. COOLER TEMP: **4°C**

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN: *[Signature]*

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison Signature: <i>[Signature]</i> Agent of: Brinkerhoff	Print Name: K. MURIZ Signature: <i>[Signature]</i> Agent of: AAR	Print Name: _____ Signature: _____ Agent of: _____	Print Name: _____ Signature: _____ Agent of: _____
Date Received: 12/22/15 Time: 1:50	Date Received: / / Time: _____	Date Received: / / Time: _____	Date Received: / / Time: _____



### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cr-1	1502312-01	Soil	12/22/2015 11:38	12/22/2015 13:50
Cr-2	1502312-02	Soil	12/22/2015 11:42	12/22/2015 13:50
Cr-3	1502312-03	Soil	12/22/2015 11:46	12/22/2015 13:50

### Data Qualifiers

- \* Values outside of QC limits
- ND - Indicates compound analyzed for but not detected
- U - Indicates compound analyzed for but not detected
- J - Indicates estimated value for TICs and all results when detected below the RL
- B - Indicates compound found in associated blank
- E - Concentration exceeds highest calibration standard
- D - Indicates result is based on a dilution
- P - Greater than 25% diff. between 2 GC columns.
- MDL - Minimum detection limit
- RL - Reporting limit

# METALS

# METALS SAMPLE DATA



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-1  
**Lab Sample ID:** 1502312-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled: 12/22/15 11:38	Matrix: Soil
Percent Solids: 81.20	File ID: 122815A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.75	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:42 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit





## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-2  
**Lab Sample ID:** 1502312-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled: 12/22/15 11:42	Matrix: Soil
Percent Solids: 81.20	File ID: 122815A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	13.1	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:47 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-3  
**Lab Sample ID:** 1502312-03  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled: 12/22/15 11:46	Matrix: Soil
Percent Solids: 80.00	File ID: 122815A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.55	2.50	2.50	1		12/24/15 08:18	EPA 3050B	12/28/15 11:52 LIT	EPA 6010

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

# METALS QC SUMMARY



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1502312  
 Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium	269	5.58	281	102	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Chromium	269	280	102	0.268	20	75 - 125

\* Values outside of QC limits



## LCS / LCS DUPLICATE RECOVERY

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Matrix:	Solid	Prep Method:	EPA 3050B
Prep Batch:	B5L2404	Lab Sample ID:	B5L2404-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium	250	256	102	85 - 115

\* Values outside of QC limits



## POST DIGEST SPIKE SAMPLE RECOVERY

1502322-02

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2404-PS1
Batch:	B5L2404	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.2 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Chromium	4970	104	5000	97.3	80 - 120



## SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502312-01 [Cr-1]	B5L2404	1.00/50.00	1.00	50.0	1.00	81.20		12/24/2015
1502312-02 [Cr-2]	B5L2404	1.00/50.00	1.00	50.0	1.00	81.20		12/24/2015
1502312-03 [Cr-3]	B5L2404	1.00/50.00	1.00	50.0	1.00	80.00		12/24/2015

# METALS CALIBRATION DATA





## METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL  
Work Order: 1502312

Matrix:	Solid	Instrument:	Thermo iTEVA
---------	-------	-------------	--------------

Analyte	MDL	MRL	Units	Method
Chromium	2.00	2.00	mg/kg	EPA 6010



## ANALYSIS SEQUENCE SUMMARY

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

Sequence:	S5L2802	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2802-ICV1	122815A-005	12/28/15 10:11
Initial Cal Blank	S5L2802-ICB1	122815A-006	12/28/15 10:16
Instrument RL Check	S5L2802-CRL1	122815A-007	12/28/15 10:22
Interference Check A	S5L2802-IFA1	122815A-008	12/28/15 10:27
Interference Check B	S5L2802-IFB1	122815A-009	12/28/15 10:32
Blank	B5L2404-BLK1	122815A-010	12/28/15 10:37
LCS	B5L2404-BS1	122815A-011	12/28/15 10:42
Serial Dilution	S5L2802-SRD1	122815A-013	12/28/15 10:52
Matrix Spike	B5L2404-MS1	122815A-014	12/28/15 10:57
Matrix Spike Dup	B5L2404-MSD1	122815A-015	12/28/15 11:02
Post Spike	B5L2404-PS1	122815A-016	12/28/15 11:07
Calibration Check	S5L2802-CCV1	122815A-020	12/28/15 11:27
Calibration Blank	S5L2802-CCB1	122815A-021	12/28/15 11:32
Cr-1	1502312-01	122815A-023	12/28/15 11:42
Cr-2	1502312-02	122815A-024	12/28/15 11:47
Cr-3	1502312-03	122815A-025	12/28/15 11:52
Calibration Check	S5L2802-CCV2	122815A-027	12/28/15 12:02
Calibration Blank	S5L2802-CCB2	122815A-028	12/28/15 12:07
Instrument RL Check	S5L2802-CRL2	122815A-029	12/28/15 12:12
Interference Check A	S5L2802-IFA2	122815A-030	12/28/15 12:18
Interference Check B	S5L2802-IFB2	122815A-031	12/28/15 12:23



## INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Sequence:** S5L2802  
**Instrument:** Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-ICV1	Chromium	7500	7350	98.0	ug/L	+/- 10.00%
S5L2802-CCV1	Chromium	5000	4880	97.7	ug/L	+/- 10.00%
S5L2802-CCV2	Chromium	5000	4980	99.5	ug/L	+/- 10.00%



## BLANKS

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Sequence:** S5L2802  
**Instrument:** Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-ICB1	Chromium	-0.268	ug/L	40.0	U
B5L2404-BLK1	Chromium	ND	mg/kg wet	2.00	U
S5L2802-CCB1	Chromium	-0.275	ug/L	40.0	U
S5L2802-CCB2	Chromium	-0.221	ug/L	40.0	U



## CRDL STANDARD

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Calibration:** UNASSIGNED  
**Sequence:** S5L2802  
**Instrument:** Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
S5L2802-CRL1	Chromium	40.0	39.5	98.8	ug/L	70 - 130
S5L2802-CRL2	Chromium	40.0	38.8	97.1	ug/L	70 - 130



## SERIAL DILUTION

### EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	S5L2802-SRD1
Sequence:	S5L2802	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Chromium	5.58	ND	N/A		10.00

\* Values outside of QC limits



## INTERFERENCE CHECK SAMPLE

EPA 6010

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Calibration:** UNASSIGNED  
**Sequence:** S5L2802  
**Instrument:** Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA1	Chromium	2.00		-0.33		ug/L
S5L2802-IFB1	Chromium	2.00	250	247.20	98.9	ug/L
S5L2802-IFA2	Chromium	2.00		-0.74		ug/L
S5L2802-IFB2	Chromium	2.00	250	250.60	100	ug/L

# WET CHEMISTRY



# WET CHEMISTRY SAMPLE DATA



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-1  
**Lab Sample ID:** 1502312-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled:	12/22/15 11:38	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.75	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-2  
**Lab Sample ID:** 1502312-02  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled:	12/22/15 11:42	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	13.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



## ANALYSIS DATA SHEET

### Inorganics

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** Cr-3  
**Lab Sample ID:** 1502312-03  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Date Sampled:	12/22/15 11:46	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.55	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

# WET CHEMISTRY QC DATA



## INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7196A

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Sequence:** S5L2916  
**Instrument:** Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2916-CCV1	Chromium, Hexavalent	1.00	0.966	96.6	mg/L	+/- 10.00%
S5L2916-ICV1	Chromium, Hexavalent	1.00	0.963	96.3	mg/L	+/- 10.00%



## BLANKS

EPA 7196A

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

**Sequence:** S5L2916  
**Instrument:** Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2804-BLK1	Chromium, Hexavalent	ND	mg/kg wet	2.00	U
S5L2916-CCB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U
S5L2916-ICB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Cr-1

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502312  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS1
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium, Hexavalent	49.3	ND	13.7 *	27.8 *	75 - 125





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Cr-1

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502312  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS2
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium, Hexavalent	983	ND	898	91.3	75 - 125

\* Values outside of QC limits



## DUPLICATES

Duplicate

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Matrix: Solid	Laboratory ID: B5L2306-DUP1
Prep Batch: B5L2306	Initial/Final: 10 g / 10 g
Prep Method: Percent Solids	Analysis: SM 2540 G
% Solids: 93.10	

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	93.1	93.1	0.00		20

\* Values outside of QC limits



## DUPLICATES

Cr-1

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502312

Matrix: Solid	Laboratory ID: B5L2804-DUP1
Prep Batch: B5L2804	Initial/Final: 2.5 g / 100 mL
Prep Method: SW 846 3060A	Analysis: EPA 7196A
% Solids: 81.20	

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Chromium, Hexavalent	ND	2.46 U			20

\* Values outside of QC limits



LCS / LCS DUPLICATE RECOVERY

EPA 7196A

Client: BRINKERHOFF ENVIRONMENTAL  
 Project: 255 East 138th Street, Bronx, NY  
 Work Order: 1502312

Matrix:	Solid	Prep Method:	SW 846 3060A
Prep Batch:	B5L2804	Lab Sample ID:	B5L2804-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium, Hexavalent	40.0	36.1	90.3	80 - 120

\* Values outside of QC limits



## POST DIGEST SPIKE SAMPLE RECOVERY

1502312-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2804-PS1
Batch:	B5L2804	Analysis:	EPA 7196A
Preparation:	SW 846 3060A	Initial/Final:	2.5 g / 100 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Chromium, Hexavalent	0.243	ND	1.00	23.2	85 - 115

# WET CHEMISTRY

## RAW DATA

1 ppm = 1 ml of 100 ppm → 100 ml in DI H<sub>2</sub>O  
 10 ppm = 10 ml of 100 ppm → 100 ml in DI H<sub>2</sub>O

	ml of 100 ppm	ml of 1 ppm	conc (ppm)
B	—	0	0.00
1	—	1	0.02
2	1	—	0.20
3	2.5	—	0.50
4	5	—	1.00
5	10	—	2.00

Wavelength = 540

INITIAL TEMP = 91°C  
 MID TEMP = 90°C  
 FINAL TEMP = 90°C

pH digestion soln = 13.04  
 Start digestion = 1030 12/15  
 End digestion = 1130 12/28  
 Start pH H<sub>2</sub>O<sub>3</sub> = 1130 12/29  
 End pH H<sub>2</sub>O<sub>3</sub> = 1300 12/29  
 Start pH H<sub>2</sub>SO<sub>4</sub> = 1500 12/29  
 End pH H<sub>2</sub>SO<sub>4</sub> = 1550 12/29  
 Time of Analysis = 1601 12/29

Color reagent Axx B11P259  
 1000 ppm Cr6 std Axx B11P259A  
 1000 ppm Hb ICV Axx B11P293  
 100 ppm Cr6 std = 10 ml of 1000 ppm + 100 ml  
 pbcr sigmag 23184606  
 Digestion soln Axx B11P71A  
 Magnesium Chloride Baker 113644  
 Phosphate Buffer Axx B10P025

SAMPLE  
 M3  
 L3  
 1502312-01  
 1502312-01 dup  
 1502312-01 ms  
 1502312-01 INS  
 1502312-01 P  
 1502312-02  
 1502312-03  
 1502323-01

wt g's  
2.5

↓

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Read and Understood By

[Signature]  
Signed

12/29/15  
Date

R Koppen  
Signed

12/29/15  
Date

SAMPLE	pH H <sub>2</sub> O <sub>2</sub>	pH H <sub>2</sub> O <sub>2</sub>	B <sub>9</sub> H <sub>2</sub> O <sub>2</sub>	A <sub>155</sub>	B <sub>9</sub> A <sub>155</sub>	GRA A <sub>155</sub>	Dil	
0.00 ppm		22		0.001			1	
0.02 ppm				0.044				
0.20 ppm				0.381				
0.50 ppm				1.018				Curve
1.00 ppm				1.905				S5L2914
2.00 ppm				4.081				15L2903
1CV				1.935				
1CB				0.001				
M <sub>3</sub>	7.79	2.02	1.95	0.004	0.003	0.001		
L <sub>2</sub>	7.70	2.03	1.99	1.824	0.011	1.813		
1502312-01	7.88	1.98	2.02	0.291	0.008	0.003		B5L2804
1502312-01 day	7.55	1.96	1.90	0.023	0.021	0.002		S5L2916
1502312-01 ns	7.26	1.98	1.97	0.560	0.015	0.545	↓	
1502312-01 ns	7.91	1.97	1.97	1.832	0.003	1.829	20	
1502312-01 P	7.99	1.98	1.92	0.487	0.013	0.474	1	
1502312-02	7.64	1.91	1.97	0.026	0.023	0.003		
1502312-03	7.85	1.98	2.01	0.012	0.010	0.002		
1502323-01	7.31	1.95	1.96	0.173	0.164	0.009		
CCV		22		1.940				
CCB				0.001			↓	

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Read and Understood By

*[Signature]*  
Signed

12/29/15  
Date

*[Signature]*  
Signed

12/29/15  
Date





# Accredited Analytical Resources, LLC.

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29 December 2015

AAR Work Order: 1502312

Doug Harm  
BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan, NJ 08736  
Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/22/2015 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel  
Technical Director

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY  
Project Manager: Doug Harm

**Reported:**  
12/29/2015 16:17

### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cr-1	1502312-01	Soil	12/22/2015 11:38	12/22/2015 13:50
Cr-2	1502312-02	Soil	12/22/2015 11:42	12/22/2015 13:50
Cr-3	1502312-03	Soil	12/22/2015 11:46	12/22/2015 13:50

### Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Indicates compound analyzed for but not detected
- U Indicates compound analyzed for but not detected
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- MDL Method Detection Limit

### Methodology Summary

#### Total Metals by EPA Method SW846 6010:

NJ 6010B  
NY 6010C

#### Wet Chemistry:

Hexavalent Chromium by 3060A/7196A  
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL

1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY  
Project Manager: Doug Harm

**Reported:**  
12/29/2015 16:17

## Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY  
 Project Manager: Doug Harm

**Reported:**  
 12/29/2015 16:17

**Client ID: Cr-1**

**Lab ID: 1502312-01 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7440-47-3	<b>Chromium</b>	<b>9.75</b>	2.46	2.46	mg/kg dry	1	12/24/15 08:18	12/28/15 11:42/LIT	EPA 6010	
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**Wet Chemistry**

Sample Prepared by Method:[CALC]

16065-83-1	<b>Trivalent Chromium</b>	<b>9.75</b>	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
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Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>81.2</b>	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
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Sample Prepared by Method:SW 846 3060A

1854-02-99	Chromium, Hexavalent	ND	2.46	2.46	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	
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Accredited Analytical Resources LLC

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
 1805 Atlantic Ave.  
 Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY  
 Project Manager: Doug Harm

**Reported:**  
 12/29/2015 16:17

**Client ID: Cr-2**

**Lab ID: 1502312-02 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7440-47-3	<b>Chromium</b>	<b>13.1</b>	2.46	2.46	mg/kg dry	1	12/24/15 08:18	12/28/15 11:47/LIT	EPA 6010	
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**Wet Chemistry**

Sample Prepared by Method:[CALC]

16065-83-1	<b>Trivalent Chromium</b>	<b>13.1</b>	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
------------	---------------------------	-------------	------	------	-----------	---	----------------	--------------------	--------	--

Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>81.2</b>	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
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Sample Prepared by Method:SW 846 3060A

1854-02-99	Chromium, Hexavalent	ND	2.46	2.46	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	
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Accredited Analytical Resources LLC

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Daniel Miguel, Technical Director



BRINKERHOFF ENVIRONMENTAL  
1805 Atlantic Ave.  
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY  
Project Manager: Doug Harm

**Reported:**  
12/29/2015 16:17

**Client ID: Cr-3**

**Lab ID: 1502312-03 (Soil)**

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
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**Accredited Analytical Resources LLC**

**Total Metals by EPA Method SW846 6010**

Sample Prepared by Method:EPA 3050B

7440-47-3	<b>Chromium</b>	<b>9.55</b>	2.50	2.50	mg/kg dry	1	12/24/15 08:18	12/28/15 11:52/LIT	EPA 6010	
-----------	-----------------	-------------	------	------	-----------	---	----------------	--------------------	----------	--

**Wet Chemistry**

Sample Prepared by Method:[CALC]

16065-83-1	<b>Trivalent Chromium</b>	<b>9.55</b>	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
------------	---------------------------	-------------	------	------	-----------	---	----------------	--------------------	--------	--

Sample Prepared by Method:Percent Solids

NA	<b>Percent Solids</b>	<b>80.0</b>	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
----	-----------------------	-------------	-------	-------	---	---	----------------	--------------------	-----------	--

Sample Prepared by Method:SW 846 3060A

1854-02-99	Chromium, Hexavalent	ND	2.50	2.50	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	
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Accredited Analytical Resources LLC

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Daniel Miguel, Technical Director





**ANALYTICAL REPORT**

for

**BRINKERHOFF ENVIRONMENTAL**

1805 Atlantic Ave.

Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502323

<b><u>Client Sample ID:</u></b> EP-18	<b><u>Lab Sample ID:</u></b> 1502323-01
--	--

This data has been reviewed and accepted by:

---

Daniel Miguel  
Technical Director

01/13/2016

New Jersey Certification Number: 12007  
New York Certification Number: 11109  
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.  
The test results included in this report relate only to the samples analyzed.





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## Case Narrative

### Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/23/2015 12:00:00 PM.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L2403 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L2403 had compounds recovered outside acceptance criteria due to matrix interference. The LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B5L2402 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the Pesticide analyses, the MS/MSD for Batch B5L2402 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel  
Technical Director



## Methodology Summary

**EPA Method SW846 8081/8082:**

NJ 8081A/8082  
NY 8081B/8082A

**Semivolatile Organic Compounds EPA Method SW846 8270:**

NJ 8270C  
NY 8270D

**Total Mercury by SW846 7471:**

NJ EPA 7471A  
NY EPA 7471B

**Total Metals by EPA Method SW846 6010:**

NJ 6010B  
NY 6010C

**Volatile Organic Compounds EPA Method SW846 8260:**

NJ 8260B  
NY 8260C

**Wet Chemistry:**

Percent Solids by SM 2540 G  
Hexavalent Chromium by 3060A/7196A  
Total Cyanide by EPA 9010C & EPA 9014



## Internal Chain of Custody

---

<b>1502323-01 (A)</b>	<i>Out</i>	<i>In</i>
Extractions	12/24/15 9:36 by MJS	12/24/15 9:50 by MJS
VOA Storage	12/28/15 10:38 by SG	by SG
<b>1502323-01 (B)</b>	<i>Out</i>	<i>In</i>
Metals	12/24/15 7:52 by PRT	12/24/15 7:52 by PRT
Walk-In Storage	12/24/15 7:52 by PRT	12/24/15 7:53 by PRT
Metals	12/24/15 7:53 by PRT	12/28/15 8:19 by PRT
Wets	12/28/15 8:19 by RMK	12/28/15 16:12 by RMK
Wets	12/28/15 16:12 by CLD	12/28/15 16:13 by CLD
<b>1502323-01 (C)</b>	<i>Out</i>	<i>In</i>
VOA Storage	12/23/15 14:48 by SG	12/23/15 17:30 by SG
<b>1502323-01 (D)</b>	<i>Out</i>	<i>In</i>
VOA Storage	12/23/15 14:48 by SG	12/23/15 17:30 by SG
<b>1502323-01RE1 (C)</b>	<i>Out</i>	<i>In</i>
VOA Storage	12/28/15 10:45 by SG	12/28/15 11:49 by SG
VOA Storage	12/28/15 11:49 by DSM	12/28/15 13:36 by DSM
VOA Storage	12/28/15 13:36 by DSM	by DSM

---



## Condition of Samples on Receipt

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

**Work Order:** 1502323

Received: 12/23/15 12:00

**Cooler**

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes





### Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

### Data Qualifiers

- \* Values outside of QC limits
- ND - Indicates compound analyzed for but not detected
- U - Indicates compound analyzed for but not detected
- J - Indicates estimated value for TICs and all results when detected below the RL
- B - Indicates compound found in associated blank
- E - Concentration exceeds highest calibration standard
- D - Indicates result is based on a dilution
- P - Greater than 25% diff. between 2 GC columns.
- MDL - Minimum detection limit
- RL - Reporting limit

# PEST/PCB



# PEST/PCB SAMPLE DATA



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.926	0.926	U
319-85-7	beta-BHC	ND	0.926	0.926	U
319-86-8	delta-BHC	ND	0.926	0.926	U
58-89-9	gamma-BHC [Lindane]	ND	0.926	0.926	U
76-44-8	Heptachlor	ND	0.926	0.926	U
309-00-2	Aldrin	ND	0.926	0.926	U
1024-57-3	Heptachlor Epoxide	ND	0.926	0.926	U
959-98-8	Endosulfan I	ND	0.926	0.926	U
60-57-1	Dieldrin	ND	1.87	1.87	U
72-55-9	4,4'-DDE	ND	1.87	1.87	U
72-20-8	Endrin	ND	1.87	1.87	U
33213-65-9	Endosulfan II	ND	1.87	1.87	U
72-54-8	4,4'-DDD	ND	1.87	1.87	U
1031-07-8	Endosulfan sulfate	ND	1.87	1.87	U
50-29-3	4,4'-DDT	ND	1.87	1.87	U
72-43-5	Methoxychlor	ND	2.81	9.34	U
53494-70-5	Endrin ketone	ND	1.87	1.87	U
7421-93-4	Endrin aldehyde	ND	1.87	1.87	U
5103-71-9	alpha-Chlordane	ND	0.926	0.926	U
5566-34-7	gamma-Chlordane	ND	0.926	0.926	U
8001-35-2	Toxaphene	ND	46.7	46.7	U
12674-11-2	Aroclor-1016	ND	23.3	46.7	U



## ANALYSIS DATA SHEET

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	23.3	46.7	U
11141-16-5	Aroclor-1232	ND	23.3	46.7	U
53469-21-9	Aroclor-1242	ND	23.3	46.7	U
12672-29-6	Aroclor-1248	ND	23.3	46.7	U
11097-69-1	Aroclor-1254	ND	23.3	46.7	U
11096-82-5	Aroclor-1260	ND	23.3	46.7	U
37324-23-5	Aroclor-1262	ND	23.3	46.7	U
11100-14-4	Aroclor-1268	ND	23.3	46.7	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	56.6%	30-150
Decachlorobiphenyl	54.9%	30-150
Decachlorobiphenyl [2C]	65.1%	30-150

\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Signal #1 : D:\G\DATA\DEC15\G1228\G14797.D\ECD1A.CH Vial: 12  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14797.D\ECD2B.CH  
 Acq On : 28 Dec 2015 14:44 Operator: JAM  
 Sample : 1502323-01 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 15:17 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

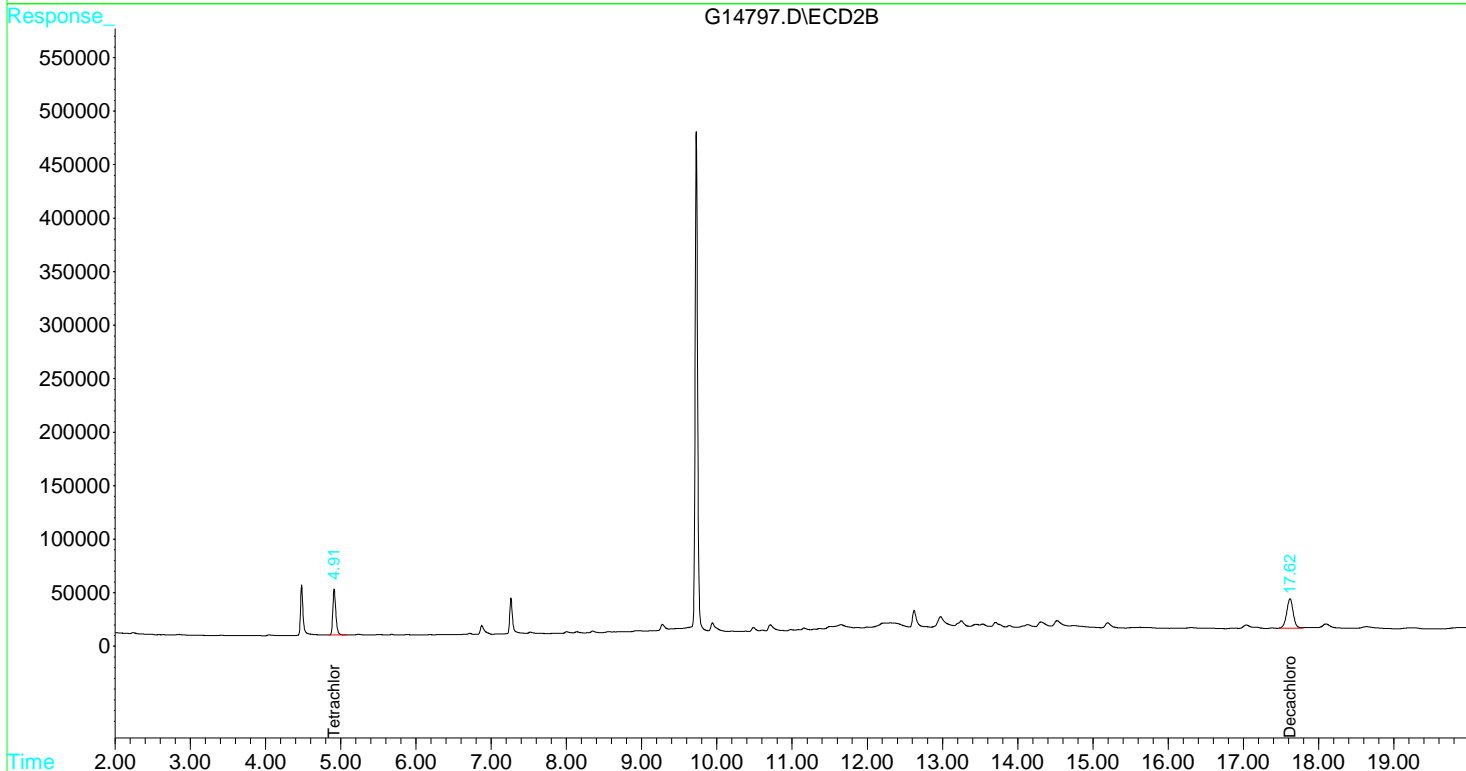
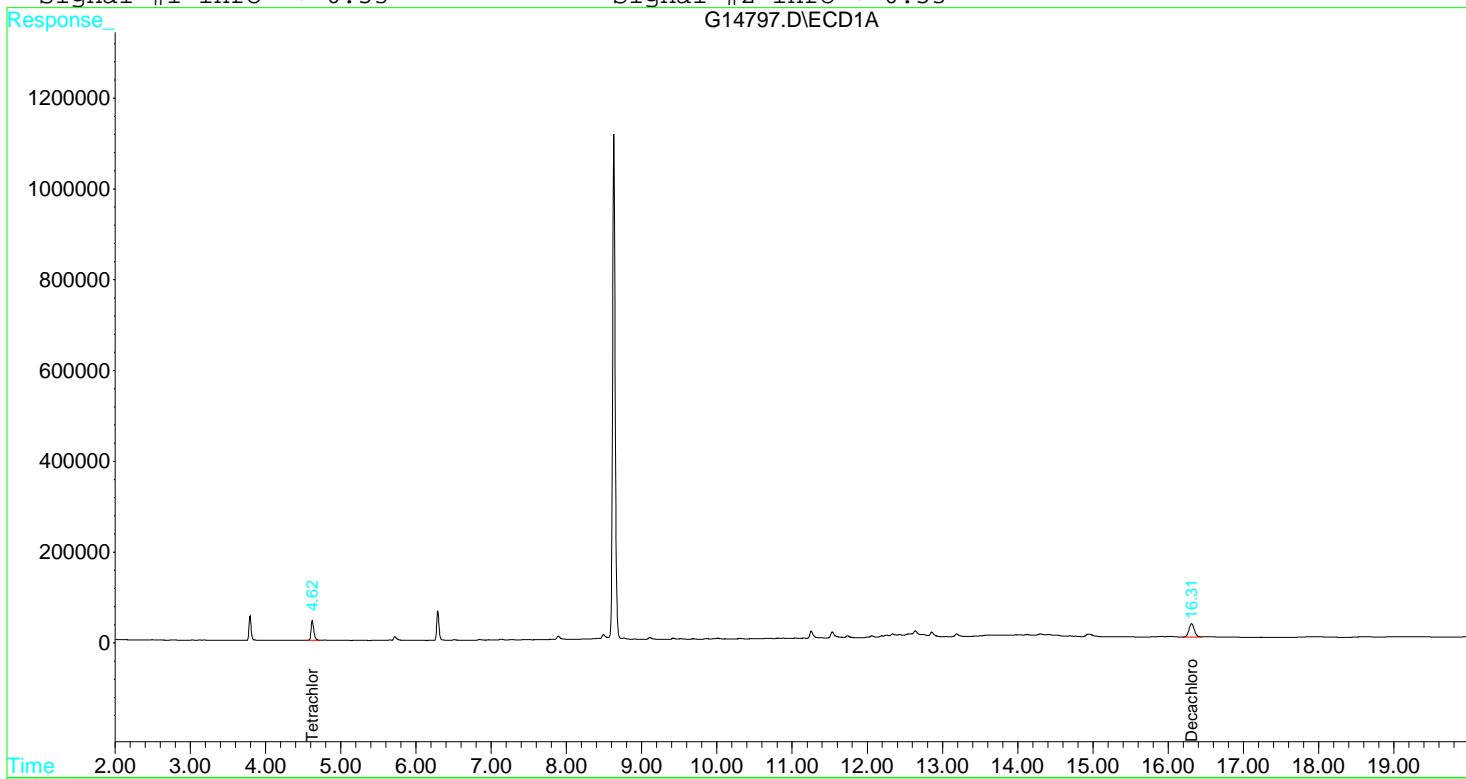
1) AS Tetrachloro-m-xy	4.62	4.91	1119182	1176126	0.635	0.566
Spiked Amount	1.000	Range	30 - 150	Recovery	= 63.50%	56.60%
2) AS Decachlorobiphen	16.31	17.62f	1443274	1661974	0.549	0.651
Spiked Amount	1.000	Range	30 - 150	Recovery	= 54.90%	65.10%

Target Compounds

Signal #1 : D:\G\DATA\DEC15\G1228\G14797.D\ECD1A.CH Vial: 12  
Signal #2 : D:\G\DATA\DEC15\G1228\G14797.D\ECD2B.CH  
Acq On : 28 Dec 2015 14:44 Operator: JAM  
Sample : 1502323-01 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 28 15:17 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:38:58 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



# PEST/PCB QC DATA



## ANALYSIS DATA SHEET

Blank

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.660	0.660	U
319-85-7	beta-BHC	ND	0.660	0.660	U
319-86-8	delta-BHC	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane]	ND	0.660	0.660	U
76-44-8	Heptachlor	ND	0.660	0.660	U
309-00-2	Aldrin	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide	ND	0.660	0.660	U
959-98-8	Endosulfan I	ND	0.660	0.660	U
60-57-1	Dieldrin	ND	1.33	1.33	U
72-55-9	4,4'-DDE	ND	1.33	1.33	U
72-20-8	Endrin	ND	1.33	1.33	U
33213-65-9	Endosulfan II	ND	1.33	1.33	U
72-54-8	4,4'-DDD	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate	ND	1.33	1.33	U
50-29-3	4,4'-DDT	ND	1.33	1.33	U
72-43-5	Methoxychlor	ND	2.00	6.66	U
53494-70-5	Endrin ketone	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane	ND	0.660	0.660	U
8001-35-2	Toxaphene	ND	33.3	33.3	U
12674-11-2	Aroclor-1016	ND	16.6	33.3	U
11104-28-2	Aroclor-1221	ND	16.6	33.3	U
11141-16-5	Aroclor-1232	ND	16.6	33.3	U



## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53469-21-9	Aroclor-1242	ND	16.6	33.3	U
12672-29-6	Aroclor-1248	ND	16.6	33.3	U
11097-69-1	Aroclor-1254	ND	16.6	33.3	U
11096-82-5	Aroclor-1260	ND	16.6	33.3	U
37324-23-5	Aroclor-1262	ND	16.6	33.3	U
11100-14-4	Aroclor-1268	ND	16.6	33.3	U
	<b><u>Surrogate</u></b>	<b><u>% Recovery</u></b>		<b><u>Recovery Limits</u></b>	
	Tetrachloro-m-xylene	87.5%		30-150	
	Decachlorobiphenyl	87.2%		30-150	

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit



Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH  
 Acq On : 28 Dec 2015 12:48 Operator: JAM  
 Sample : B5L2402-BLK1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
----------	------	------	--------	--------	------	------

System Monitoring Compounds

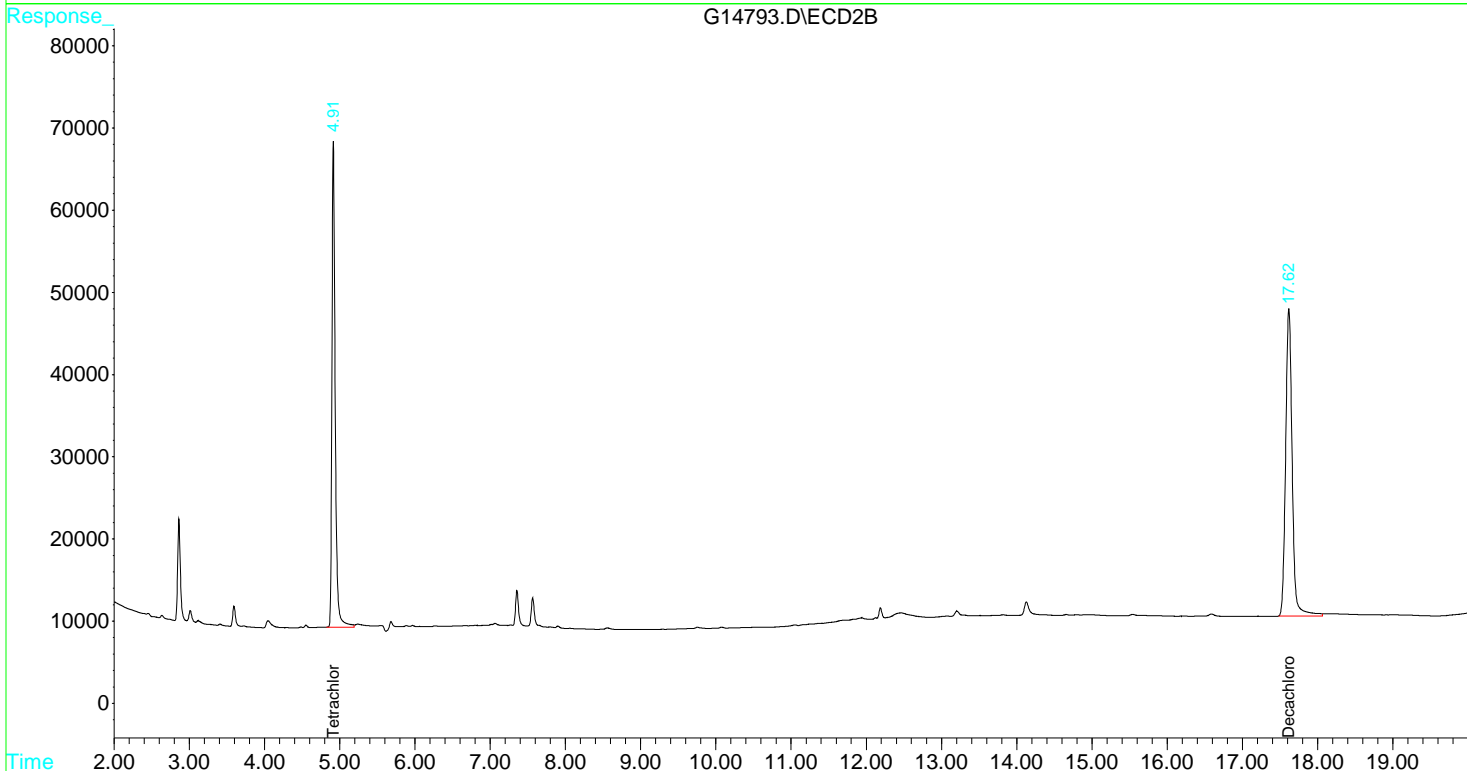
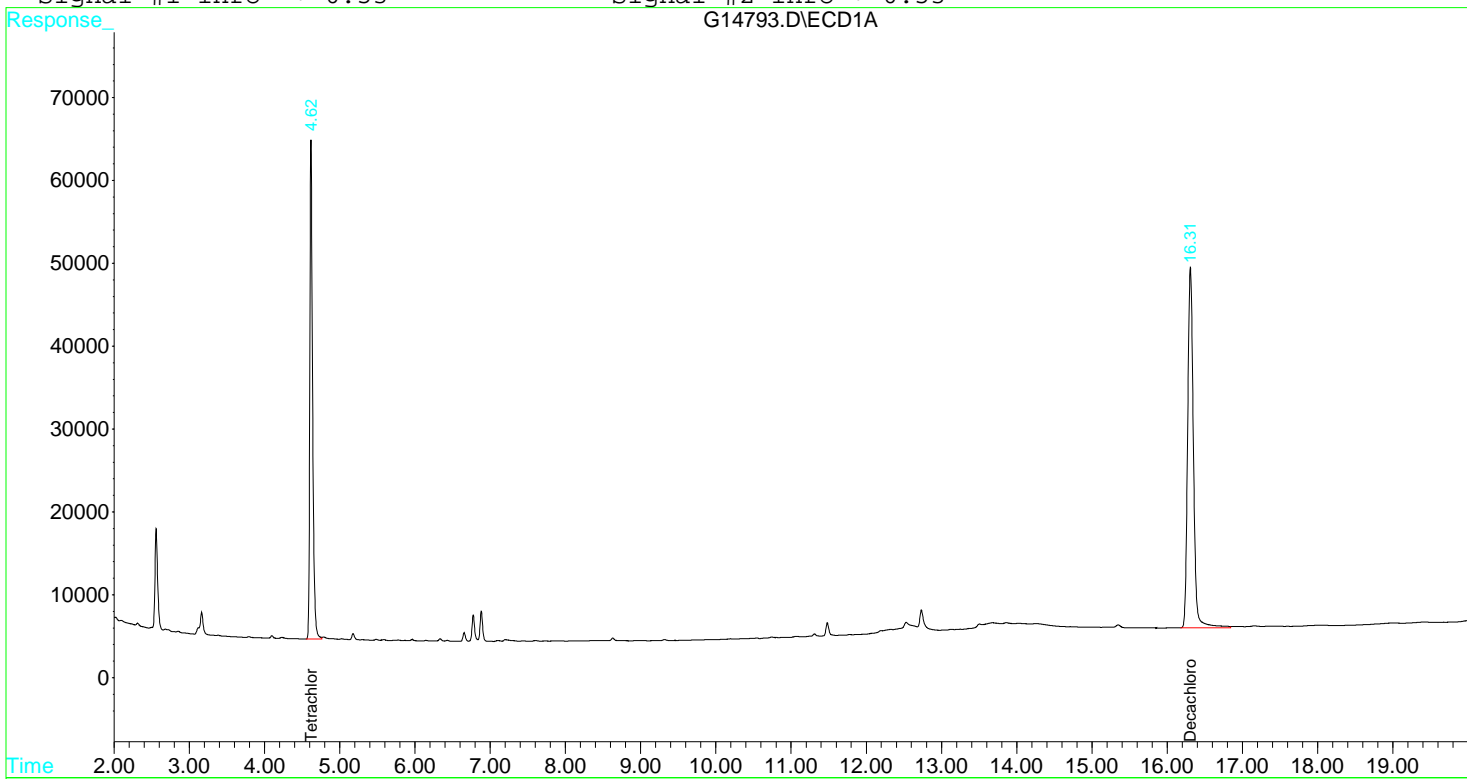
1) AS Tetrachloro-m-xy	4.62	4.91	1543580	1770384	0.875	0.852
Spiked Amount	1.000	Range	30 - 150	Recovery	= 87.50%	85.20%
2) AS Decachlorobiphen	16.31	17.62f	2294814	2272636	0.872	0.891
Spiked Amount	1.000	Range	30 - 150	Recovery	= 87.20%	89.10%

Target Compounds

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8  
Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH  
Acq On : 28 Dec 2015 12:48 Operator: JAM  
Sample : B5L2402-BLK1 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:38:58 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53





## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC [2C]	ND	0.660	0.660	U
319-85-7	beta-BHC [2C]	ND	0.660	0.660	U
319-86-8	delta-BHC [2C]	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane] [2C]	ND	0.660	0.660	U
76-44-8	Heptachlor [2C]	ND	0.660	0.660	U
309-00-2	Aldrin [2C]	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide [2C]	ND	0.660	0.660	U
959-98-8	Endosulfan I [2C]	ND	0.660	0.660	U
60-57-1	Dieldrin [2C]	ND	1.33	1.33	U
72-55-9	4,4'-DDE [2C]	ND	1.33	1.33	U
72-20-8	Endrin [2C]	ND	1.33	1.33	U
33213-65-9	Endosulfan II [2C]	ND	1.33	1.33	U
72-54-8	4,4'-DDD [2C]	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate [2C]	ND	1.33	1.33	U
50-29-3	4,4'-DDT [2C]	ND	1.33	1.33	U
72-43-5	Methoxychlor [2C]	ND	2.00	6.66	U
53494-70-5	Endrin ketone [2C]	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde [2C]	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane [2C]	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane [2C]	ND	0.660	0.660	U
8001-35-2	Toxaphene [2C]	ND	33.3	33.3	U
12674-11-2	Aroclor-1016 [2C]	ND	16.6	33.3	U
11104-28-2	Aroclor-1221 [2C]	ND	16.6	33.3	U
11141-16-5	Aroclor-1232 [2C]	ND	16.6	33.3	U



## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53469-21-9	Aroclor-1242 [2C]	ND	16.6	33.3	U
12672-29-6	Aroclor-1248 [2C]	ND	16.6	33.3	U
11097-69-1	Aroclor-1254 [2C]	ND	16.6	33.3	U
11096-82-5	Aroclor-1260 [2C]	ND	16.6	33.3	U
37324-23-5	Aroclor-1262 [2C]	ND	16.6	33.3	U
11100-14-4	Aroclor-1268 [2C]	ND	16.6	33.3	U
	<b><u>Surrogate</u></b>	<b><u>% Recovery</u></b>		<b><u>Recovery Limits</u></b>	
	Tetrachloro-m-xylene [2C]	85.2%		30-150	
	Decachlorobiphenyl [2C]	89.1%		30-150	

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH  
 Acq On : 28 Dec 2015 12:48 Operator: JAM  
 Sample : B5L2402-BLK1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

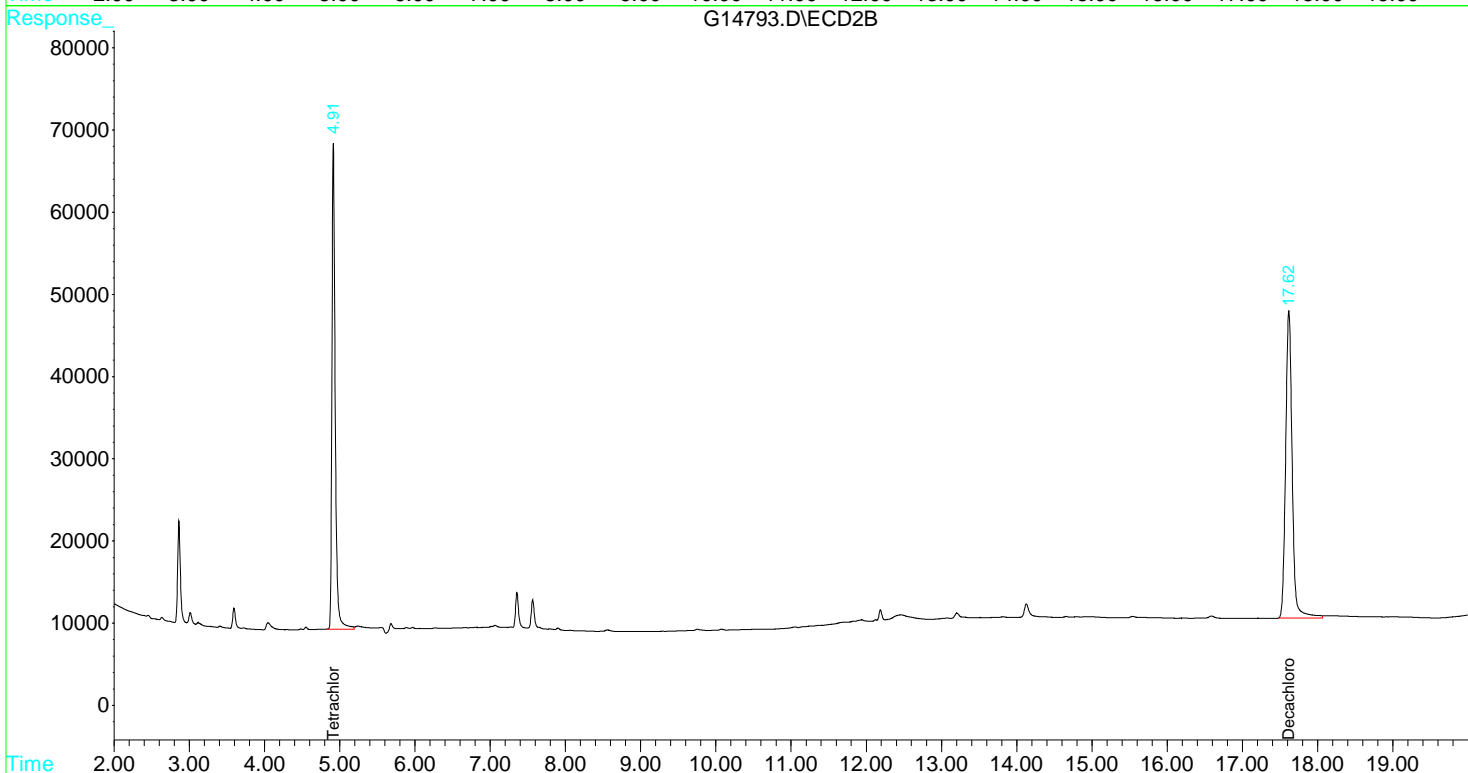
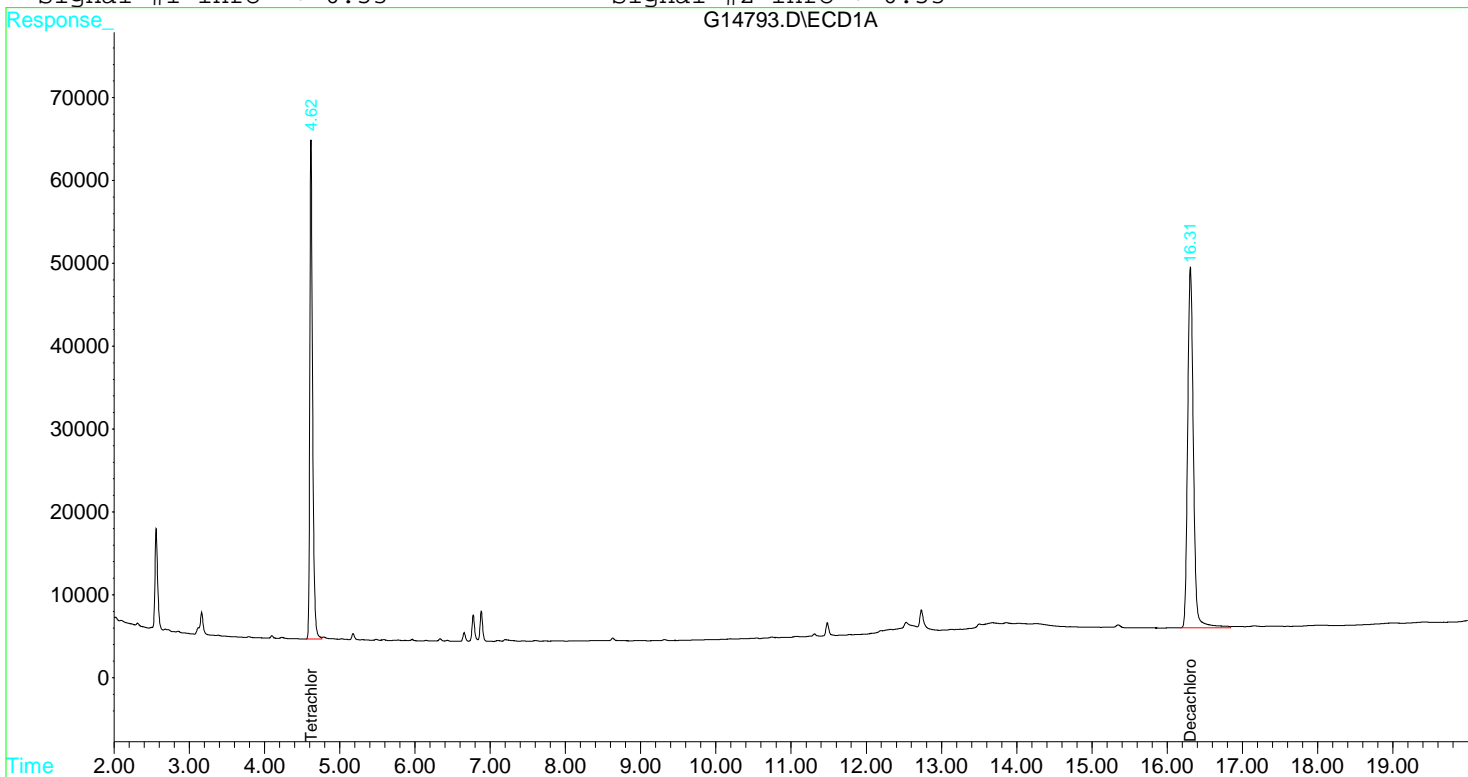
1) AS Tetrachloro-m-xy	4.62	4.91	1543580	1770384	0.875	0.852
Spiked Amount	1.000	Range	30 - 150	Recovery	= 87.50%	85.20%
2) AS Decachlorobiphen	16.31	17.62f	2294814	2272636	0.872	0.891
Spiked Amount	1.000	Range	30 - 150	Recovery	= 87.20%	89.10%

Target Compounds

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH  
 Acq On : 28 Dec 2015 12:48 Operator: JAM  
 Sample : B5L2402-BLK1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



# PEST/PCB QC SUMMARY



## SYSTEM MONITORING COMPOUND SUMMARY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

**Matrix:** Solid  
**Instrument:** GCECD\_GHF

Lab Sample ID:	DCB (30% - 150%)	DCB[2C] (30% - 150%)	TCMX (30% - 150%)	TCMX[2C] (30% - 150%)
1502323-01	54.9	65.1	63.5	56.6
B5L2402-BLK1	87.2	89.1	87.5	85.2
B5L2402-BS1	94.9	95.9	77.3	75.1
B5L2402-BS2	85.8	90.9	85.5	76.6
B5L2402-MS1	61.6	68.5	71.4	67.7
B5L2402-MS2	53.4	82.1	53.8	47.5
B5L2402-MSD1	62.2	69.1	72.1	68.4
B5L2402-MSD2	50.3	78.9	50.8	42.2





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MS1
Column:	1	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC	10.9	ND	9.08	83.7	30 - 150
beta-BHC	10.9	ND	9.77	90.0	30 - 150
delta-BHC	10.9	ND	10.1	92.7	30 - 150
gamma-BHC [Lindane]	10.9	ND	9.05	83.3	30 - 150
Heptachlor	10.9	ND	11.8	109	30 - 150
Aldrin	10.9	ND	15.0	138	30 - 150
Heptachlor Epoxide	10.9	ND	2320	21400 *	30 - 150
Endosulfan I	10.9	ND	7.02	64.7	30 - 150
Dieldrin	10.9	ND	8.72	80.3	30 - 150
4,4'-DDE	10.9	ND	9.70	89.3	30 - 150
Endrin	10.9	ND	19.9	183 *	30 - 150
Endosulfan II	10.9	ND	10.4	96.0	30 - 150
4,4'-DDD	10.9	ND	9.08	83.7	30 - 150
Endosulfan sulfate	10.9	ND	10.9	100	30 - 150
4,4'-DDT	10.9	ND	10.1	93.3	30 - 150
Methoxychlor	10.9	ND	11.3	104	30 - 150
Endrin ketone	10.9	ND	9.74	89.7	30 - 150
Endrin aldehyde	10.9	ND	10.2	94.3	30 - 150
alpha-Chlordane	10.9	1.92	12.2	95.0	30 - 150
gamma-Chlordane	10.9	2.39	10.4	73.3	30 - 150

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH  
 Acq On : 28 Dec 2015 16:41 Operator: JAM  
 Sample : B5L2402-MS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.91	1258838	1406722	0.714	0.677
Spiked Amount	1.000	Range	30 - 150	Recovery =	71.40%	67.70%
2) AS Decachlorobiphen	16.32	17.63	1620284	1746776	0.616	0.685
Spiked Amount	1.000	Range	30 - 150	Recovery =	61.60%	68.50%

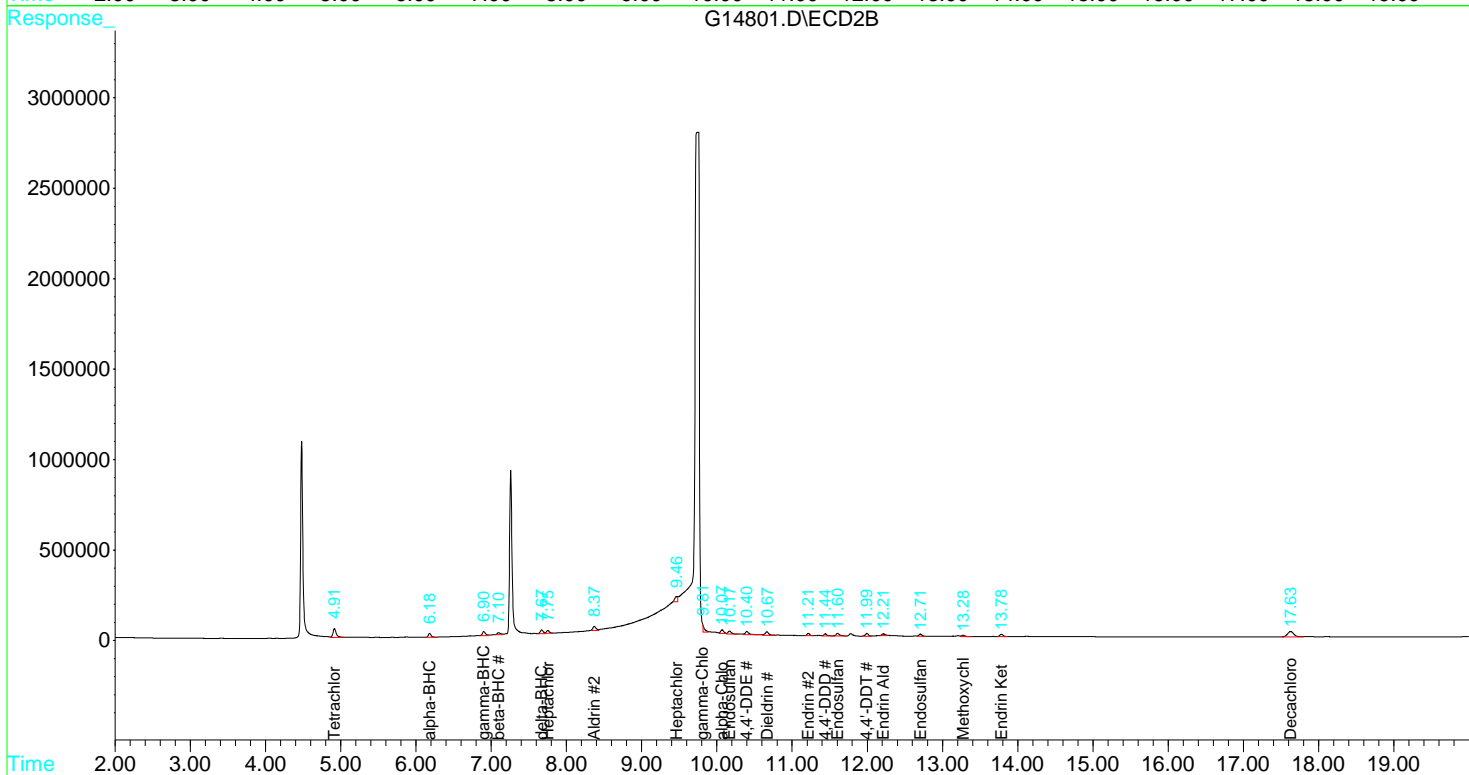
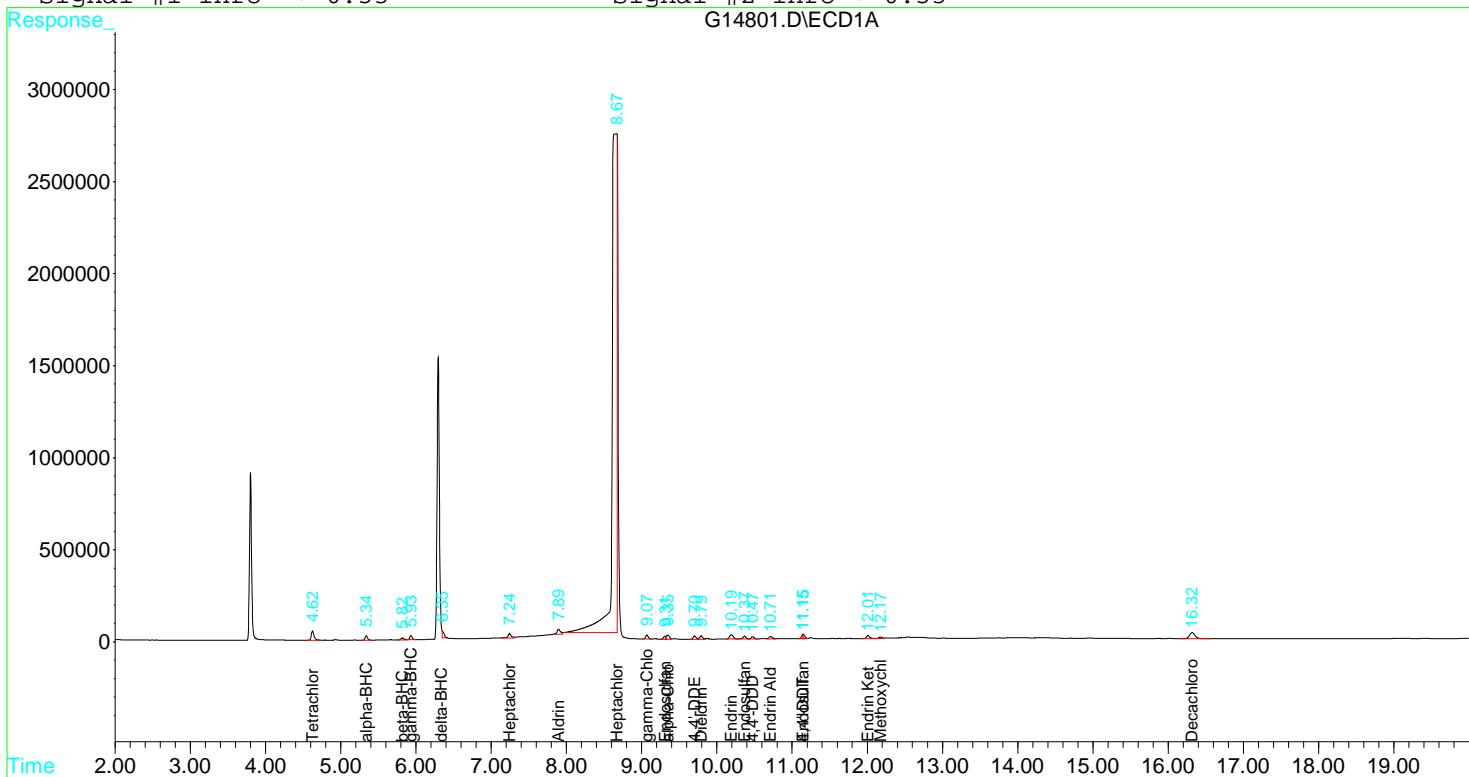
Target Compounds

2) A alpha-BHC	5.34	6.18	529290	570670	0.251	0.242
3) AM gamma-BHC (Linda)	5.93	6.90	516082	649182	0.250	0.279
4) AM Heptachlor	7.24	7.75	707276	416806	0.327	0.249
5) BM Aldrin	7.89	8.37	796054	718576	0.414m	0.363
6) B beta-BHC	5.82	7.10	299328	361104	0.270	0.303
7) B delta-BHC	6.35f	7.67	510080	548010	0.278m	0.300
8) B Heptachlor Epoxi	8.67	9.46	125.5E6	747878	64.209	0.410 #
9) A Endosulfan I	9.31	10.17	362972	535496	0.194	0.307 #
10) B gamma-Chlordane	9.07	9.81	553230	574882	0.286	0.292m
11) B alpha-Chlordane	9.35	10.07	654404	545544	0.338m	0.288
12) B 4,4'-DDE	9.70	10.40	476348	687166	0.268	0.389 #
13) AM Dieldrin	9.79	10.67	448484	618214	0.241	0.361 #
14) AM Endrin	10.19	11.21	828490	365822	0.550	0.298 #
15) B Endosulfan II	10.37	11.60	470706	499958	0.288	0.332
16) A 4,4'-DDD	10.47	11.44	342566	318456	0.251	0.261
17) AM 4,4'-DDT	11.15	11.99	457680	405566	0.280m	0.272
18) B Endrin Aldehyde	10.71	12.21	406918	359326	0.283	0.239m
19) B Endosulfan Sulfa	11.15	12.71	473642	350482	0.301m	0.254
20) A Methoxychlor	12.17	13.28	274626	220970	0.311	0.379
21) B Endrin Ketone	12.01	13.78f	507390	419168	0.269	0.239

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH  
 Acq On : 28 Dec 2015 16:41 Operator: JAM  
 Sample : B5L2402-MS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MSD1
Column:	1	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
alpha-BHC	10.9	9.16	84.3	0.794	30	30 - 150
beta-BHC	10.9	9.77	90.0	0.00	30	30 - 150
delta-BHC	10.9	10.9	100	7.94	30	30 - 150
gamma-BHC [Lindane]	10.9	9.12	84.0	0.797	30	30 - 150
Heptachlor	10.9	10.1	92.7	16.2	30	30 - 150
Aldrin	10.9	14.0	129	6.74	30	30 - 150
Heptachlor Epoxide	10.9	2350	21600 *	1.13	30	30 - 150
Endosulfan I	10.9	7.31	67.3	4.04	30	30 - 150
Dieldrin	10.9	8.90	82.0	2.05	30	30 - 150
4,4'-DDE	10.9	9.92	91.3	2.21	30	30 - 150
Endrin	10.9	20.5	189 *	2.87	30	30 - 150
Endosulfan II	10.9	10.7	98.3	2.40	30	30 - 150
4,4'-DDD	10.9	9.12	84.0	0.398	30	30 - 150
Endosulfan sulfate	10.9	10.5	97.0	3.38	30	30 - 150
4,4'-DDT	10.9	9.55	88.0	5.88	30	30 - 150
Methoxychlor	10.9	9.55	88.0	16.3	30	30 - 150
Endrin ketone	10.9	9.74	89.7	0.00	30	30 - 150
Endrin aldehyde	10.9	10.2	94.0	0.354	30	30 - 150
alpha-Chlordane	10.9	11.6	89.0	5.47	30	30 - 150
gamma-Chlordane	10.9	10.6	75.3	2.08	30	30 - 150

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:11 Operator: JAM  
 Sample : B5L2402-MSD1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.91	1271782	1420516	0.721	0.684
Spiked Amount	1.000	Range	30 - 150	Recovery =	72.10%	68.40%
2) AS Decachlorobiphen	16.32	17.63	1635334	1763976	0.622	0.691
Spiked Amount	1.000	Range	30 - 150	Recovery =	62.20%	69.10%

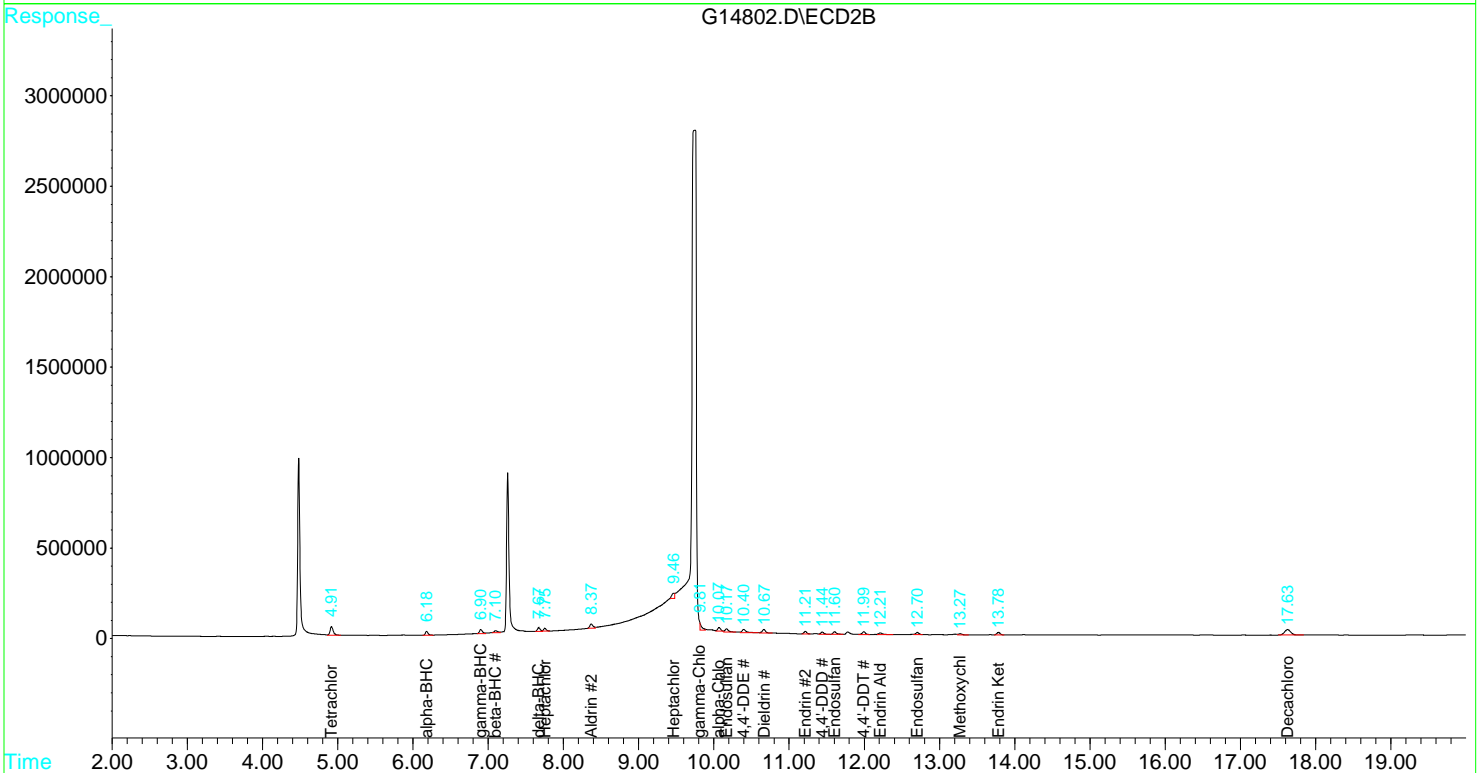
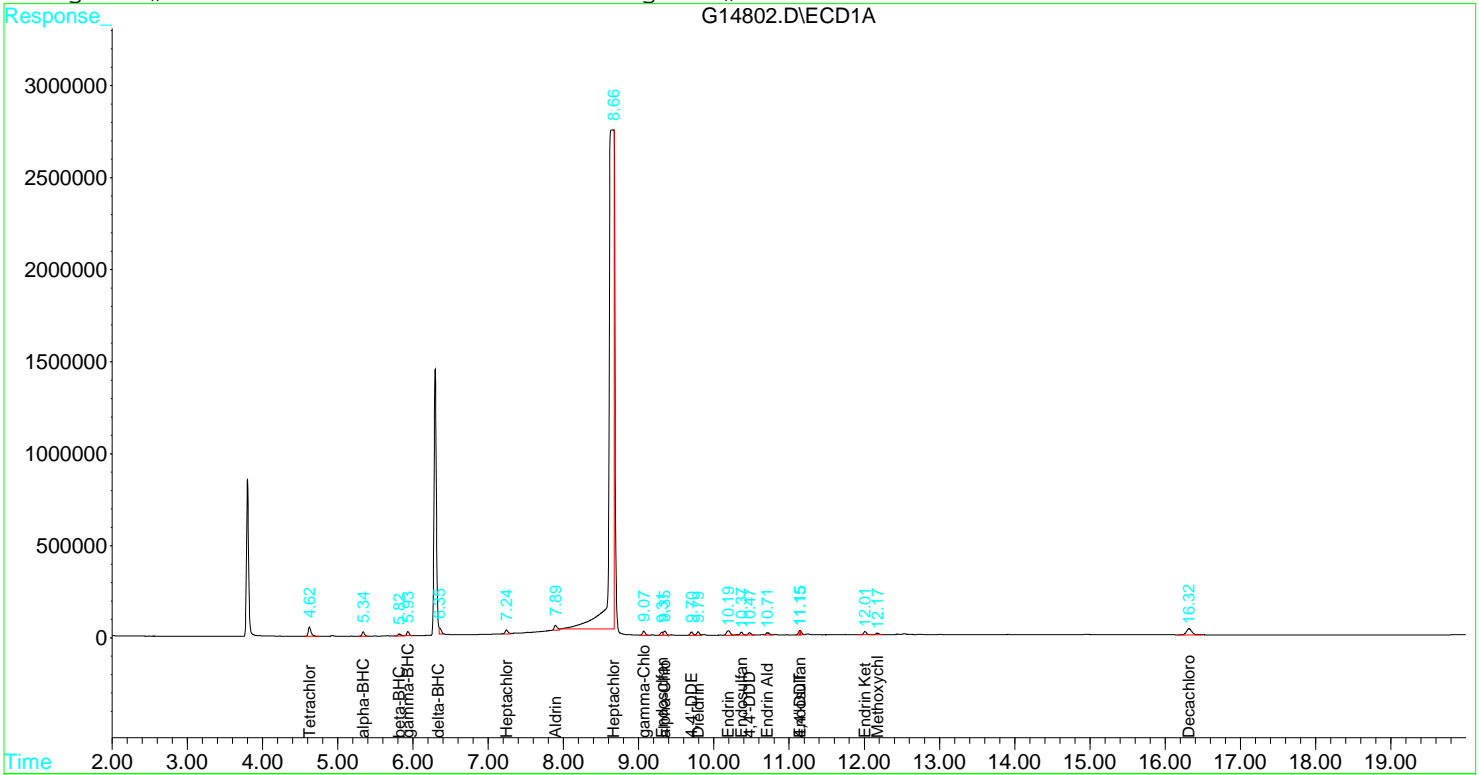
Target Compounds

2) A alpha-BHC	5.34	6.18	534286	574654	0.253	0.243
3) AM gamma-BHC (Linda)	5.93	6.90	520454	643262	0.252	0.276
4) AM Heptachlor	7.24	7.75	602564	398924	0.278m	0.238
5) BM Aldrin	7.89	8.37	744316	740916	0.387m	0.374
6) B beta-BHC	5.82	7.10	299462	361406	0.270	0.303
7) B delta-BHC	6.35f	7.67	551828	553728	0.301m	0.303
8) B Heptachlor Epoxi	8.66	9.46	127.0E6	757512	64.936	0.416 #
9) A Endosulfan I	9.31	10.17	378242	547222	0.202	0.314 #
10) B gamma-Chlordane	9.07	9.81	564720	622074	0.292	0.316m
11) B alpha-Chlordane	9.35	10.07	620866	559146	0.320m	0.296
12) B 4,4'-DDE	9.70	10.40	487800	702406	0.274	0.398 #
13) AM Dieldrin	9.79	10.67	457890	640132	0.246	0.374 #
14) AM Endrin	10.19	11.21	852364	377678	0.566	0.307 #
15) B Endosulfan II	10.37	11.60	482070	456928	0.295	0.303
16) A 4,4'-DDD	10.47	11.44	343432	349836	0.252	0.287
17) AM 4,4'-DDT	11.15	11.99	430868	450388	0.264m	0.302
18) B Endrin Aldehyde	10.71	12.21	405734	333144	0.282	0.221
19) B Endosulfan Sulfa	11.15	12.70	458992	356190	0.291m	0.259
20) A Methoxychlor	12.17	13.27	233444	218500	0.264	0.375 #
21) B Endrin Ketone	12.01	13.78f	507216	433904	0.269	0.248

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:11 Operator: JAM  
 Sample : B5L2402-MSD1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MS2
Column:	1	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	370	ND	314	84.9	40 - 140
Aroclor-1016 (1)	370	0.00	370	99.9	40 - 140
Aroclor-1016 (2)	370	0.00	293	79.1	40 - 140
Aroclor-1016 (3)	370	0.00	280	75.7	40 - 140
Aroclor-1260	370	ND	444	120	40 - 140
Aroclor-1260 (1)	370	0.00	508	137	40 - 140
Aroclor-1260 (2)	370	0.00	516	139	40 - 140
Aroclor-1260 (3)	370	0.00	310	83.7	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:40 Operator: JAM  
 Sample : B5L2402-MS2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	102119	107666	0.538	0.475
Spiked Amount	1.000		Recovery	=	53.80%	47.50%
29) AS DCB	16.32f	17.62f	158765	234404	0.534m	0.821m#
Spiked Amount	1.000		Recovery	=	53.40%	82.10%

Target Compounds

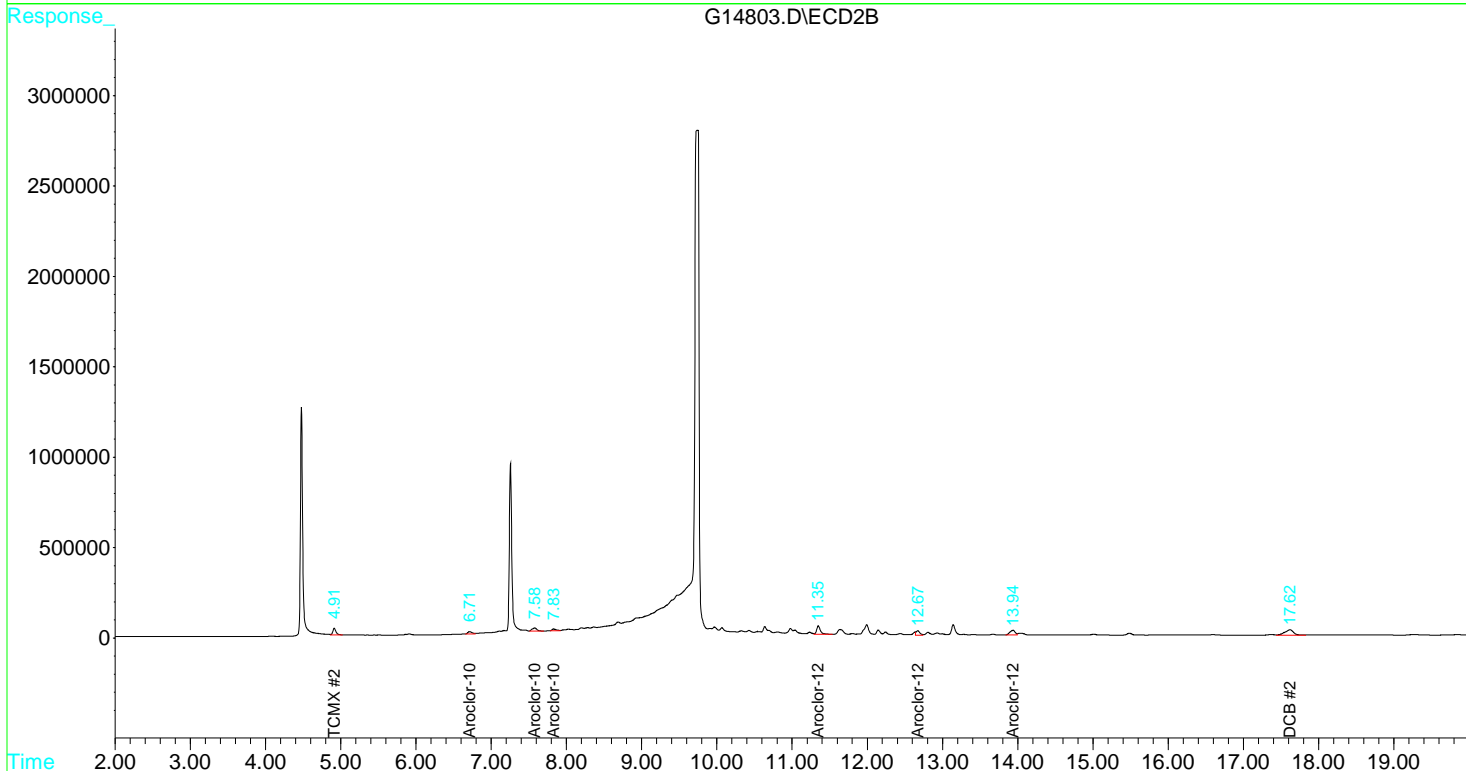
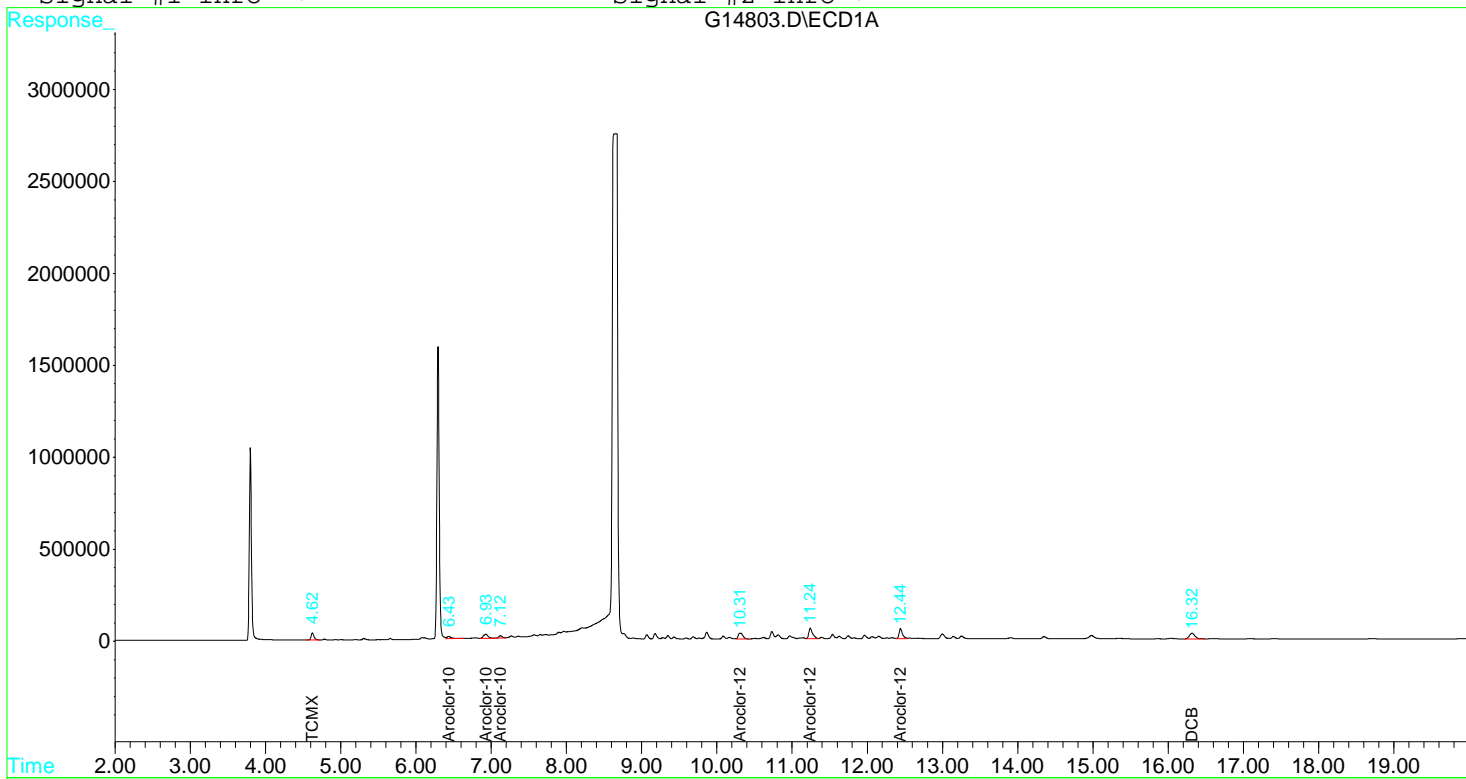
2) L1 Aroclor-1016	6.43f	6.71	48422	55647	9.991	7.513
3) L1 Aroclor-1016 {2}	6.93f	7.58f	110848	78339	7.907	5.771 #
4) L1 Aroclor-1016 {3}	7.12f	7.83f	47719	38275	7.574m	5.995
20) L7 Aroclor-1260	10.31f	11.35f	134047	157537	13.730	13.349
21) L7 Aroclor-1260 {2}	11.24f	12.67f	198766	87054	13.935m	10.647m
22) L7 Aroclor-1260 {3}	12.44f	13.94f	172703	129177	8.373	9.077m



Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18  
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH  
Acq On : 28 Dec 2015 17:40 Operator: JAM  
Sample : B5L2402-MS2 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 10:09:57 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MSD2
Column:	1	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	370	299	80.9	4.82	30	40 - 140
Aroclor-1016 (1)	370	362	97.8	2.15	30	40 - 140
Aroclor-1016 (2)	370	262	70.9	10.9	30	40 - 140
Aroclor-1016 (3)	370	274	74.1	2.22	30	40 - 140
Aroclor-1260	370	438	118	1.50	30	40 - 140
Aroclor-1260 (1)	370	506	137	0.445	30	40 - 140
Aroclor-1260 (2)	370	481	130	6.89	30	40 - 140
Aroclor-1260 (3)	370	326	88.3	5.26	30	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH  
 Acq On : 28 Dec 2015 18:09 Operator: JAM  
 Sample : B5L2402-MSD2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	96355	95753	0.508	0.422
Spiked Amount	1.000		Recovery	=	50.80%	42.20%
29) AS DCB	16.31f	17.62f	149412	225256	0.503m	0.789m#
Spiked Amount	1.000		Recovery	=	50.30%	78.90%

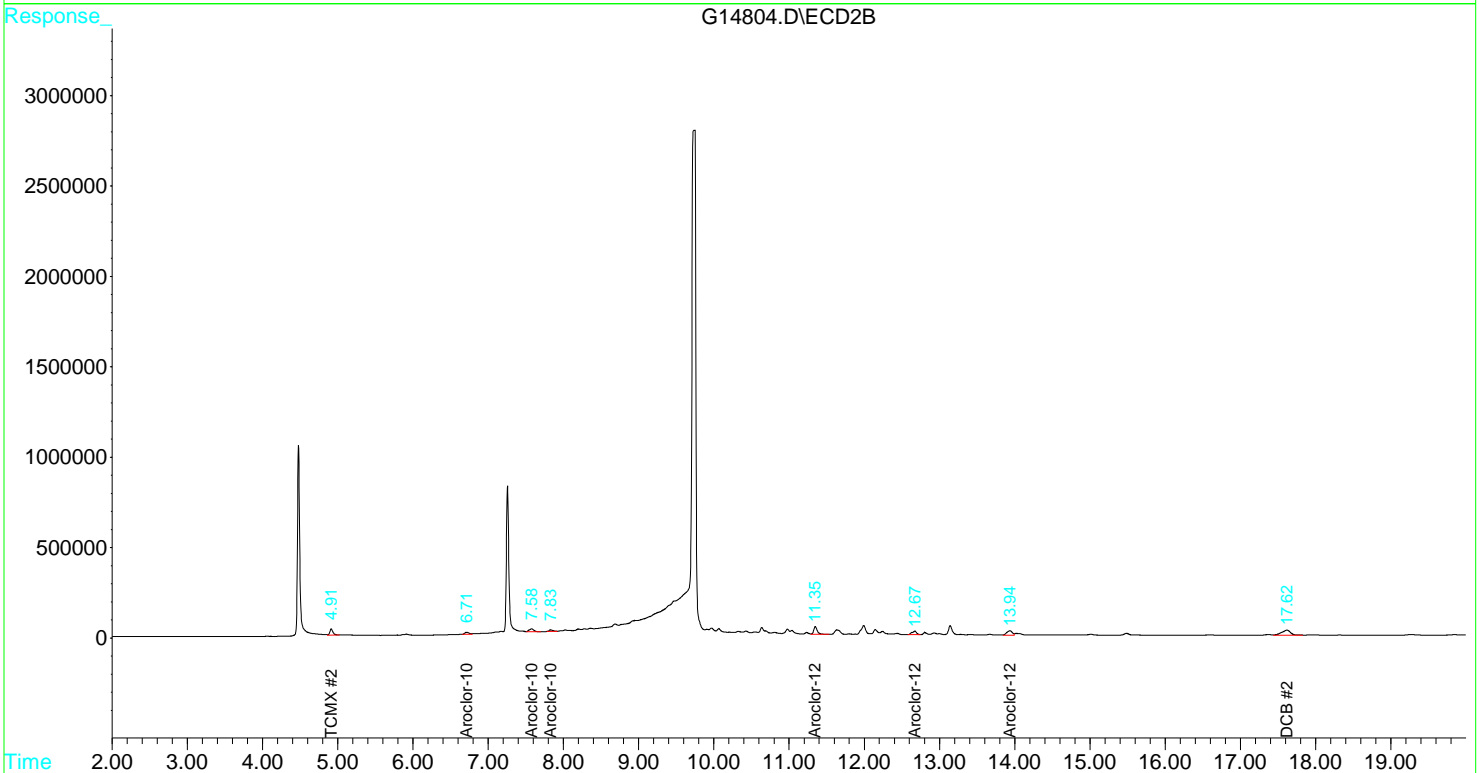
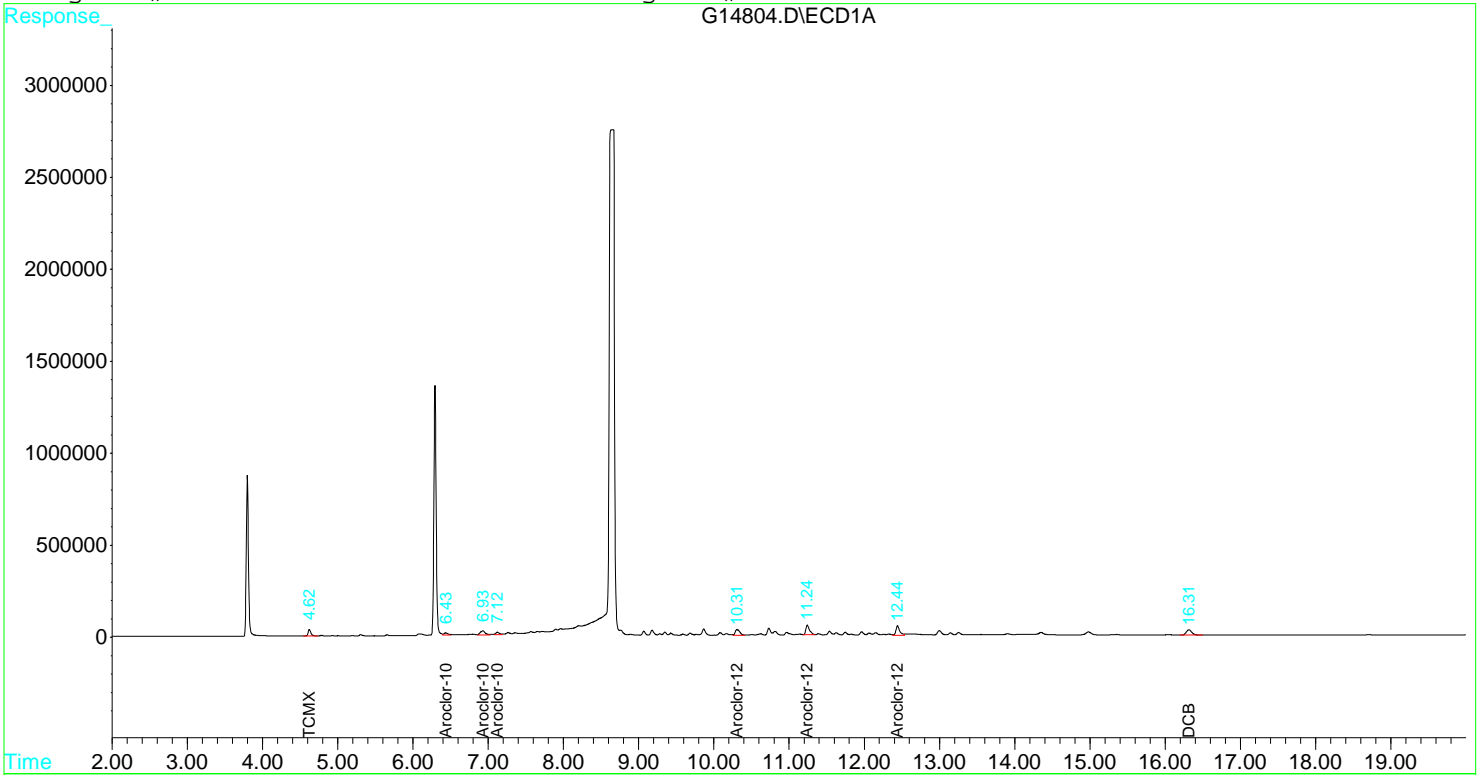
Target Compounds

2) L1 Aroclor-1016	6.43f	6.71	47392	50697	9.778m	6.845 #
3) L1 Aroclor-1016 {2}	6.93f	7.58f	99352	72459	7.087m	5.338
4) L1 Aroclor-1016 {3}	7.12f	7.83f	46672	35303	7.408m	5.529 #
20) L7 Aroclor-1260	10.31f	11.35f	133447	139939	13.669m	11.858
21) L7 Aroclor-1260 {2}	11.24f	12.67f	185531	87348	13.007m	10.683
22) L7 Aroclor-1260 {3}	12.44f	13.94f	182027	123560	8.825	8.682m

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19  
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH  
Acq On : 28 Dec 2015 18:09 Operator: JAM  
Sample : B5L2402-MSD2 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 10:09:57 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MS1
Column:	2	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.9	ND	8.76	80.7	30 - 150
beta-BHC [2C]	10.9	ND	11.0	101	30 - 150
delta-BHC [2C]	10.9	ND	10.9	100	30 - 150
gamma-BHC [Lindane] [2C]	10.9	ND	10.1	93.0	30 - 150
Heptachlor [2C]	10.9	ND	9.01	83.0	30 - 150
Aldrin [2C]	10.9	ND	13.1	121	30 - 150
Heptachlor Epoxide [2C]	10.9	ND	14.8	137	30 - 150
Endosulfan I [2C]	10.9	ND	11.1	102	30 - 150
Dieldrin [2C]	10.9	ND	13.1	120	30 - 150
4,4'-DDE [2C]	10.9	ND	14.1	130	30 - 150
Endrin [2C]	10.9	ND	10.8	99.3	30 - 150
Endosulfan II [2C]	10.9	ND	12.0	111	30 - 150
4,4'-DDD [2C]	10.9	ND	9.45	87.0	30 - 150
Endosulfan sulfate [2C]	10.9	ND	9.19	84.7	30 - 150
4,4'-DDT [2C]	10.9	ND	9.84	90.7	30 - 150
Methoxychlor [2C]	10.9	ND	13.7	126	30 - 150
Endrin ketone [2C]	10.9	ND	8.65	79.7	30 - 150
Endrin aldehyde [2C]	10.9	ND	8.65	79.7	30 - 150
alpha-Chlordane [2C]	10.9	2.39	10.4	74.0	30 - 150
gamma-Chlordane [2C]	10.9	2.79	10.6	71.7	30 - 150

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH  
 Acq On : 28 Dec 2015 16:41 Operator: JAM  
 Sample : B5L2402-MS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.91	1258838	1406722	0.714	0.677
Spiked Amount	1.000	Range	30 - 150	Recovery	= 71.40%	67.70%
2) AS Decachlorobiphen	16.32	17.63	1620284	1746776	0.616	0.685
Spiked Amount	1.000	Range	30 - 150	Recovery	= 61.60%	68.50%

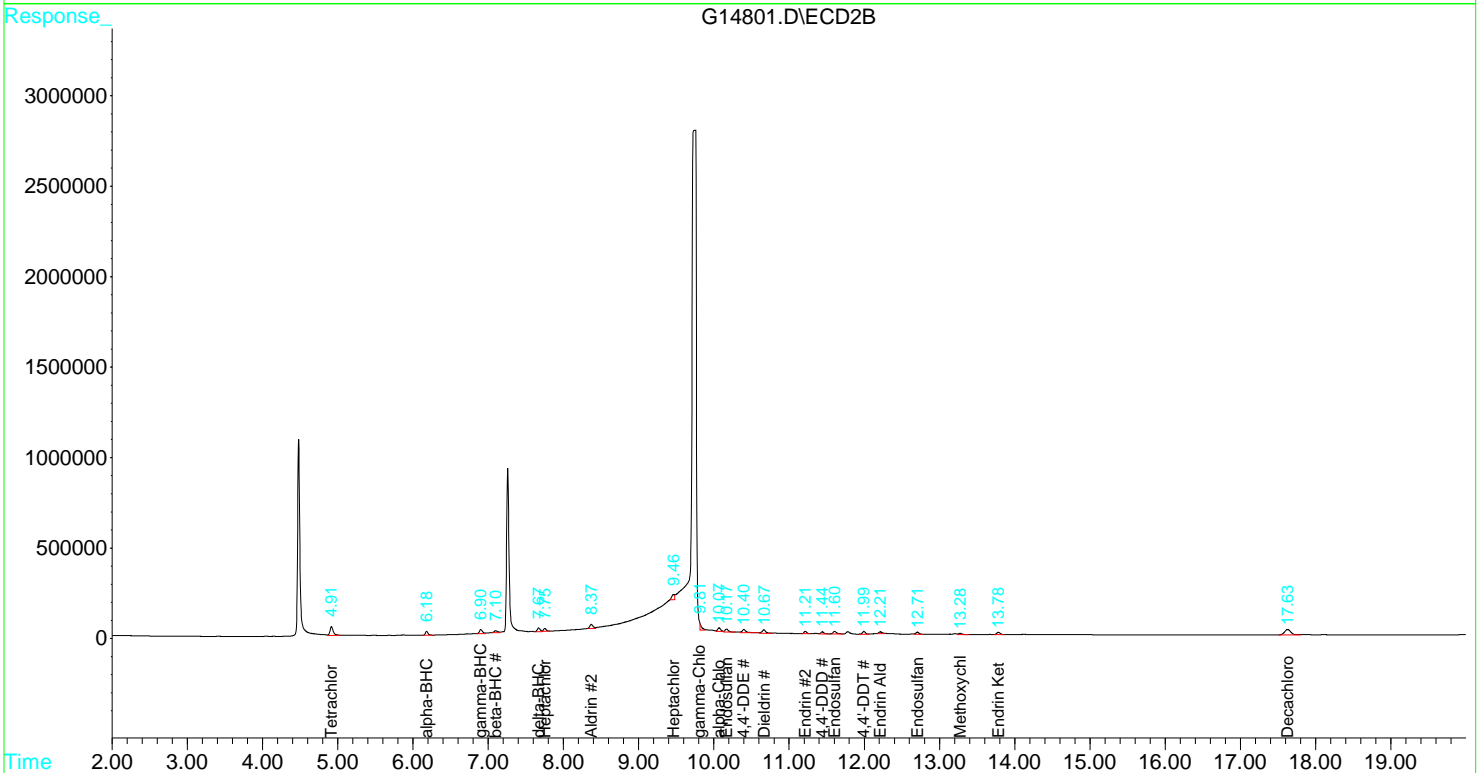
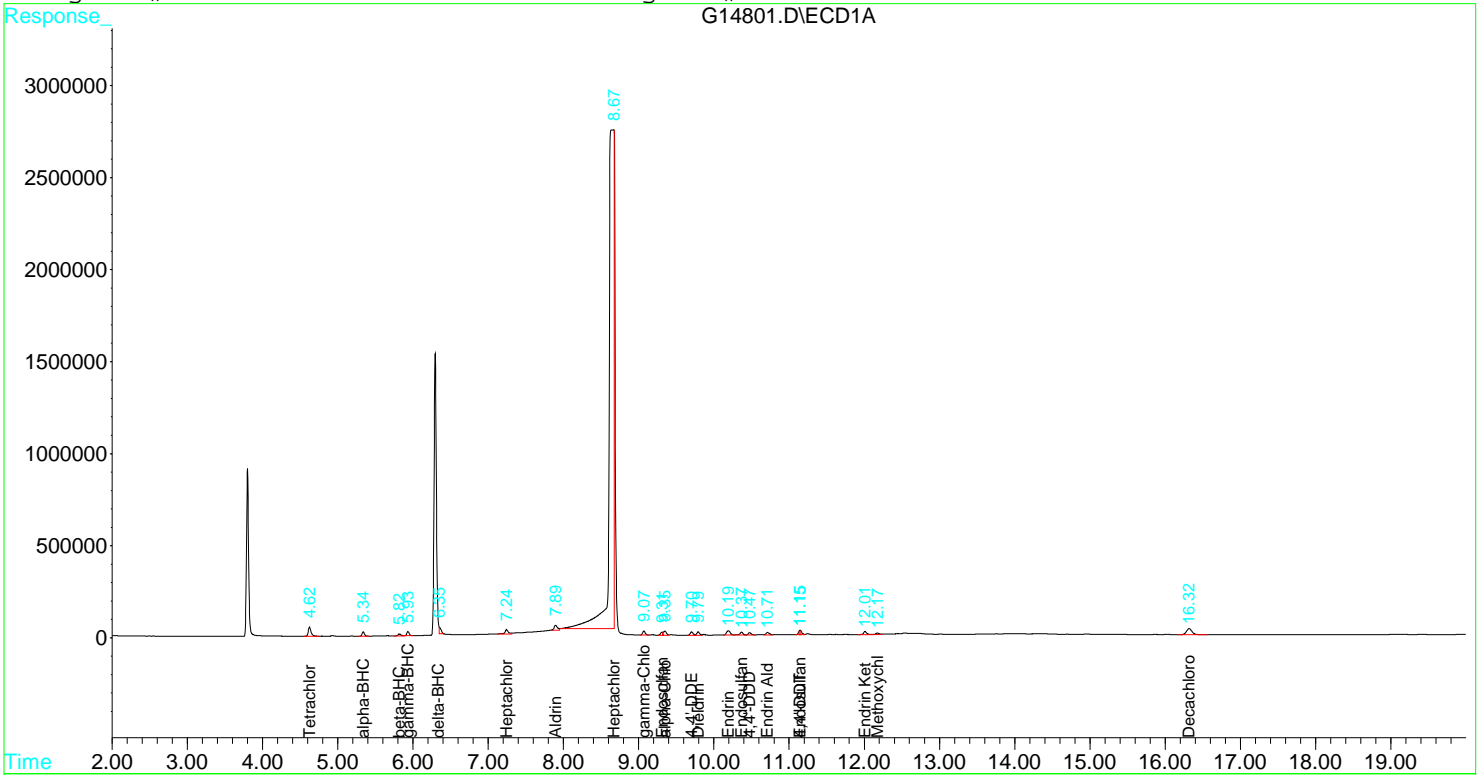
Target Compounds

2) A alpha-BHC	5.34	6.18	529290	570670	0.251	0.242
3) AM gamma-BHC (Linda)	5.93	6.90	516082	649182	0.250	0.279
4) AM Heptachlor	7.24	7.75	707276	416806	0.327	0.249
5) BM Aldrin	7.89	8.37	796054	718576	0.414m	0.363
6) B beta-BHC	5.82	7.10	299328	361104	0.270	0.303
7) B delta-BHC	6.35f	7.67	510080	548010	0.278m	0.300
8) B Heptachlor Epoxi	8.67	9.46	125.5E6	747878	64.209	0.410 #
9) A Endosulfan I	9.31	10.17	362972	535496	0.194	0.307 #
10) B gamma-Chlordane	9.07	9.81	553230	574882	0.286	0.292m
11) B alpha-Chlordane	9.35	10.07	654404	545544	0.338m	0.288
12) B 4,4'-DDE	9.70	10.40	476348	687166	0.268	0.389 #
13) AM Dieldrin	9.79	10.67	448484	618214	0.241	0.361 #
14) AM Endrin	10.19	11.21	828490	365822	0.550	0.298 #
15) B Endosulfan II	10.37	11.60	470706	499958	0.288	0.332
16) A 4,4'-DDD	10.47	11.44	342566	318456	0.251	0.261
17) AM 4,4'-DDT	11.15	11.99	457680	405566	0.280m	0.272
18) B Endrin Aldehyde	10.71	12.21	406918	359326	0.283	0.239m
19) B Endosulfan Sulfa	11.15	12.71	473642	350482	0.301m	0.254
20) A Methoxychlor	12.17	13.28	274626	220970	0.311	0.379
21) B Endrin Ketone	12.01	13.78f	507390	419168	0.269	0.239

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH  
 Acq On : 28 Dec 2015 16:41 Operator: JAM  
 Sample : B5L2402-MS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MSD1
Column:	2	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
alpha-BHC [2C]	10.9	8.79	81.0	0.412	30	30 - 150
beta-BHC [2C]	10.9	11.0	101	0.00	30	30 - 150
delta-BHC [2C]	10.9	11.0	101	0.995	30	30 - 150
gamma-BHC [Lindane] [2C]	10.9	9.99	92.0	1.08	30	30 - 150
Heptachlor [2C]	10.9	8.61	79.3	4.52	30	30 - 150
Aldrin [2C]	10.9	13.5	125	2.99	30	30 - 150
Heptachlor Epoxide [2C]	10.9	15.1	139	1.45	30	30 - 150
Endosulfan I [2C]	10.9	11.4	105	2.25	30	30 - 150
Dieldrin [2C]	10.9	13.5	125	3.54	30	30 - 150
4,4'-DDE [2C]	10.9	14.4	133	2.29	30	30 - 150
Endrin [2C]	10.9	11.1	102	2.98	30	30 - 150
Endosulfan II [2C]	10.9	11.0	101	9.13	30	30 - 150
4,4'-DDD [2C]	10.9	10.4	95.7	9.49	30	30 - 150
Endosulfan sulfate [2C]	10.9	9.37	86.3	1.95	30	30 - 150
4,4'-DDT [2C]	10.9	10.9	101	10.5	30	30 - 150
Methoxychlor [2C]	10.9	13.6	125	1.06	30	30 - 150
Endrin ketone [2C]	10.9	8.98	82.7	3.70	30	30 - 150
Endrin aldehyde [2C]	10.9	8.00	73.7	7.83	30	30 - 150
alpha-Chlordane [2C]	10.9	10.7	76.7	2.74	30	30 - 150
gamma-Chlordane [2C]	10.9	11.4	79.7	7.89	30	30 - 150



Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:11 Operator: JAM  
 Sample : B5L2402-MSD1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.91	1271782	1420516	0.721	0.684
Spiked Amount	1.000	Range	30 - 150	Recovery =	72.10%	68.40%
2) AS Decachlorobiphen	16.32	17.63	1635334	1763976	0.622	0.691
Spiked Amount	1.000	Range	30 - 150	Recovery =	62.20%	69.10%

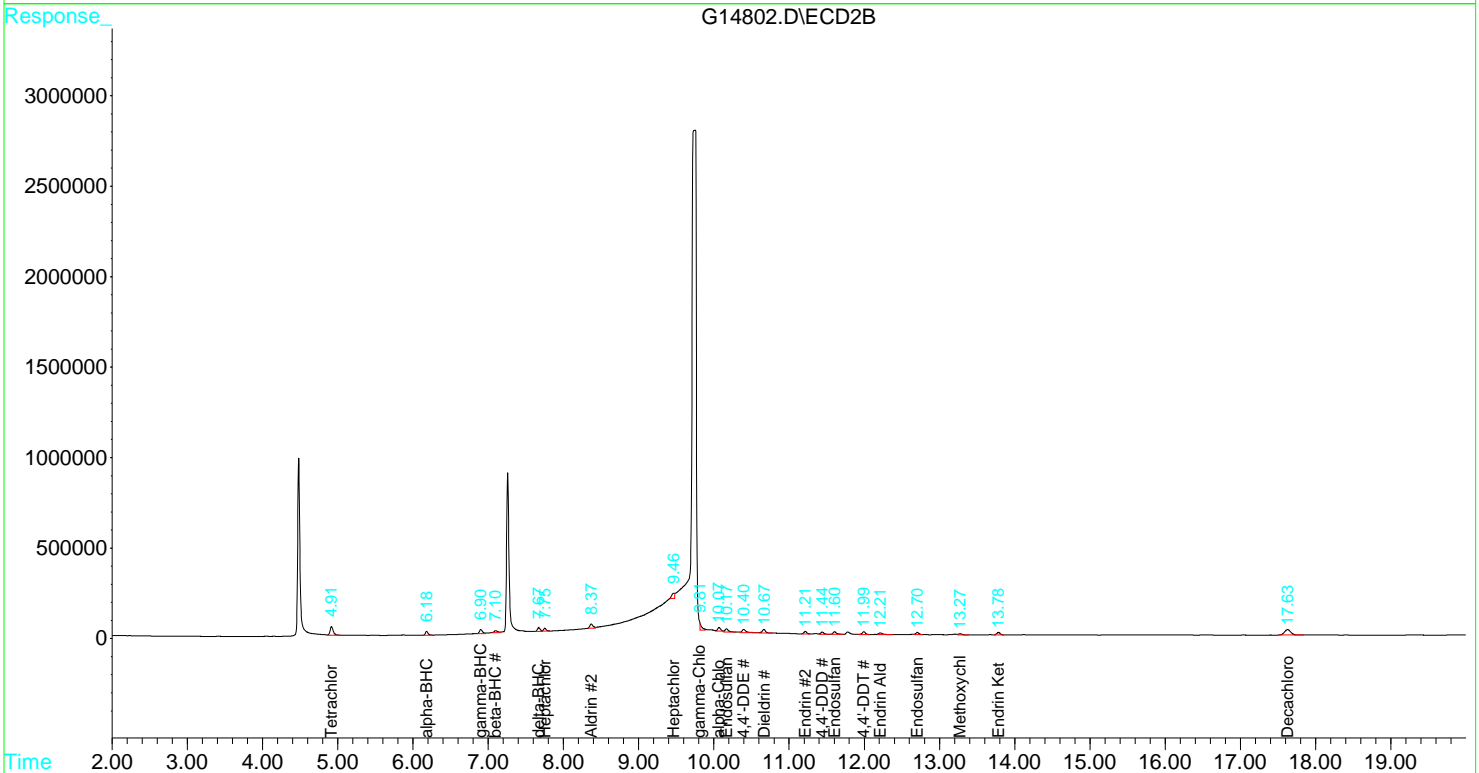
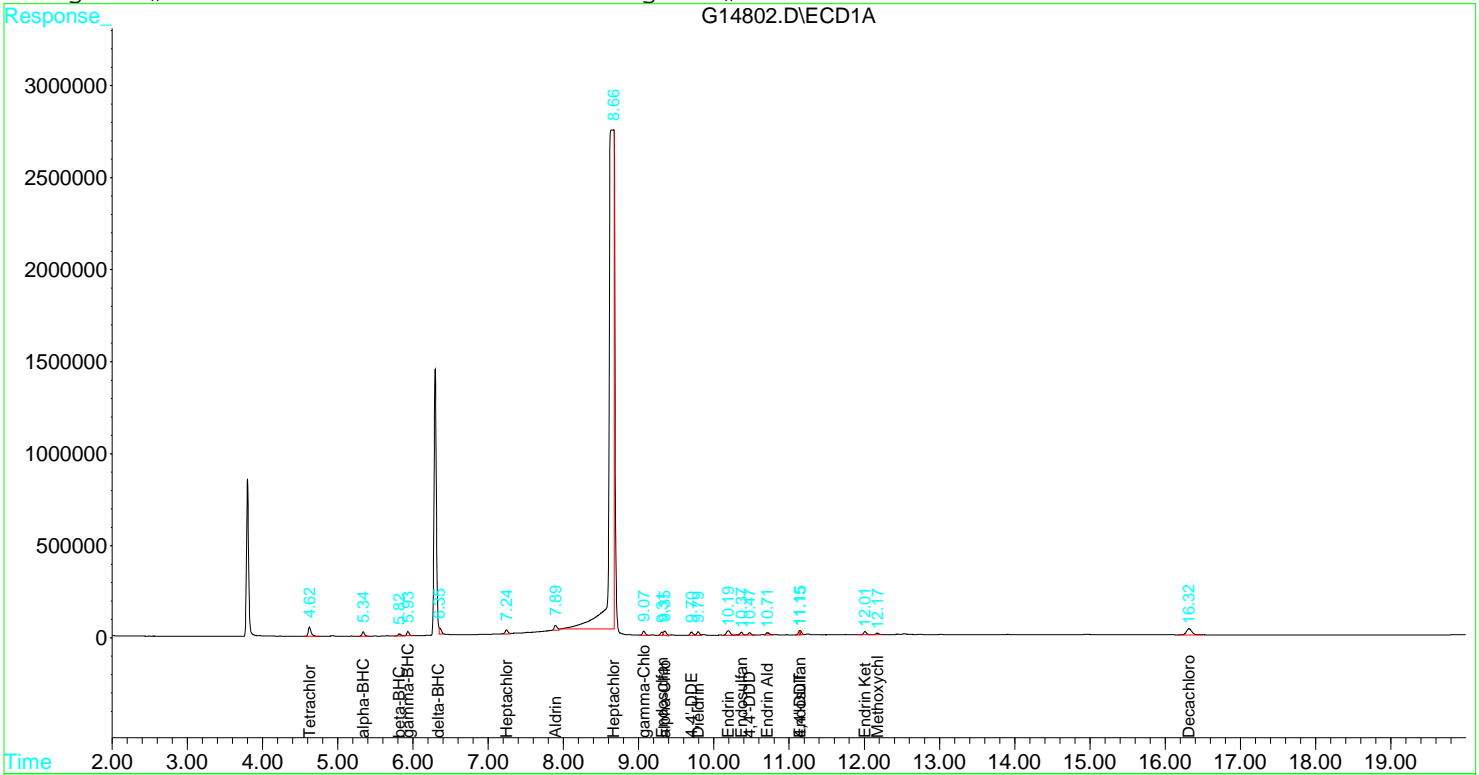
Target Compounds

2) A alpha-BHC	5.34	6.18	534286	574654	0.253	0.243
3) AM gamma-BHC (Linda)	5.93	6.90	520454	643262	0.252	0.276
4) AM Heptachlor	7.24	7.75	602564	398924	0.278m	0.238
5) BM Aldrin	7.89	8.37	744316	740916	0.387m	0.374
6) B beta-BHC	5.82	7.10	299462	361406	0.270	0.303
7) B delta-BHC	6.35f	7.67	551828	553728	0.301m	0.303
8) B Heptachlor Epoxi	8.66	9.46	127.0E6	757512	64.936	0.416 #
9) A Endosulfan I	9.31	10.17	378242	547222	0.202	0.314 #
10) B gamma-Chlordane	9.07	9.81	564720	622074	0.292	0.316m
11) B alpha-Chlordane	9.35	10.07	620866	559146	0.320m	0.296
12) B 4,4'-DDE	9.70	10.40	487800	702406	0.274	0.398 #
13) AM Dieldrin	9.79	10.67	457890	640132	0.246	0.374 #
14) AM Endrin	10.19	11.21	852364	377678	0.566	0.307 #
15) B Endosulfan II	10.37	11.60	482070	456928	0.295	0.303
16) A 4,4'-DDD	10.47	11.44	343432	349836	0.252	0.287
17) AM 4,4'-DDT	11.15	11.99	430868	450388	0.264m	0.302
18) B Endrin Aldehyde	10.71	12.21	405734	333144	0.282	0.221
19) B Endosulfan Sulfa	11.15	12.70	458992	356190	0.291m	0.259
20) A Methoxychlor	12.17	13.27	233444	218500	0.264	0.375 #
21) B Endrin Ketone	12.01	13.78f	507216	433904	0.269	0.248

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:11 Operator: JAM  
 Sample : B5L2402-MSD1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MS2
Column:	2	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	370	ND	238	64.3	40 - 140
Aroclor-1016 (1) [2C]	370	0.00	278	75.1	40 - 140
Aroclor-1016 (2) [2C]	370	0.00	214	57.7	40 - 140
Aroclor-1016 (3) [2C]	370	0.00	222	60.0	40 - 140
Aroclor-1260 [2C]	370	ND	408	110	40 - 140
Aroclor-1260 (1) [2C]	370	0.00	494	133	40 - 140
Aroclor-1260 (2) [2C]	370	0.00	394	106	40 - 140
Aroclor-1260 (3) [2C]	370	0.00	336	90.8	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH  
 Acq On : 28 Dec 2015 17:40 Operator: JAM  
 Sample : B5L2402-MS2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	102119	107666	0.538	0.475
Spiked Amount	1.000		Recovery	=	53.80%	47.50%
29) AS DCB	16.32f	17.62f	158765	234404	0.534m	0.821m#
Spiked Amount	1.000		Recovery	=	53.40%	82.10%

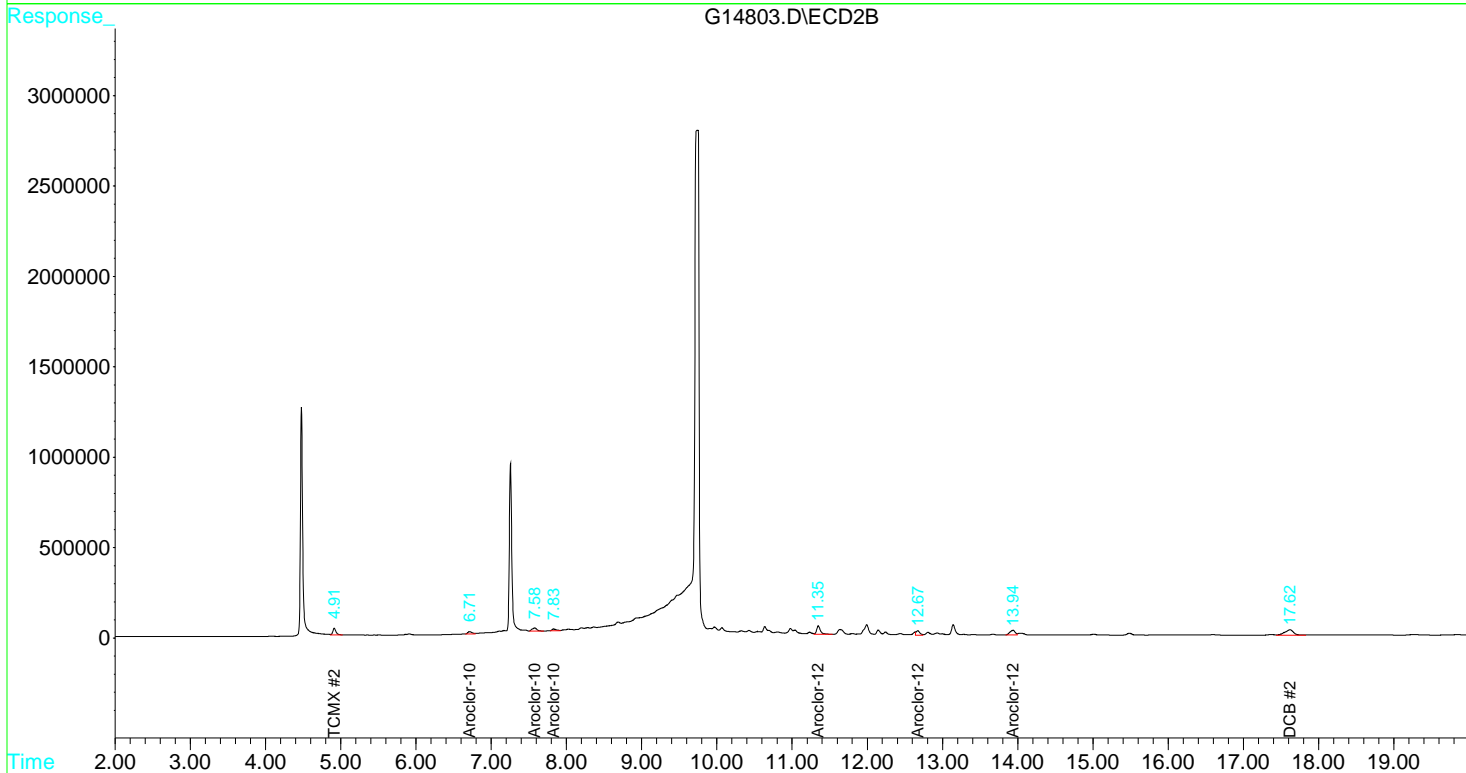
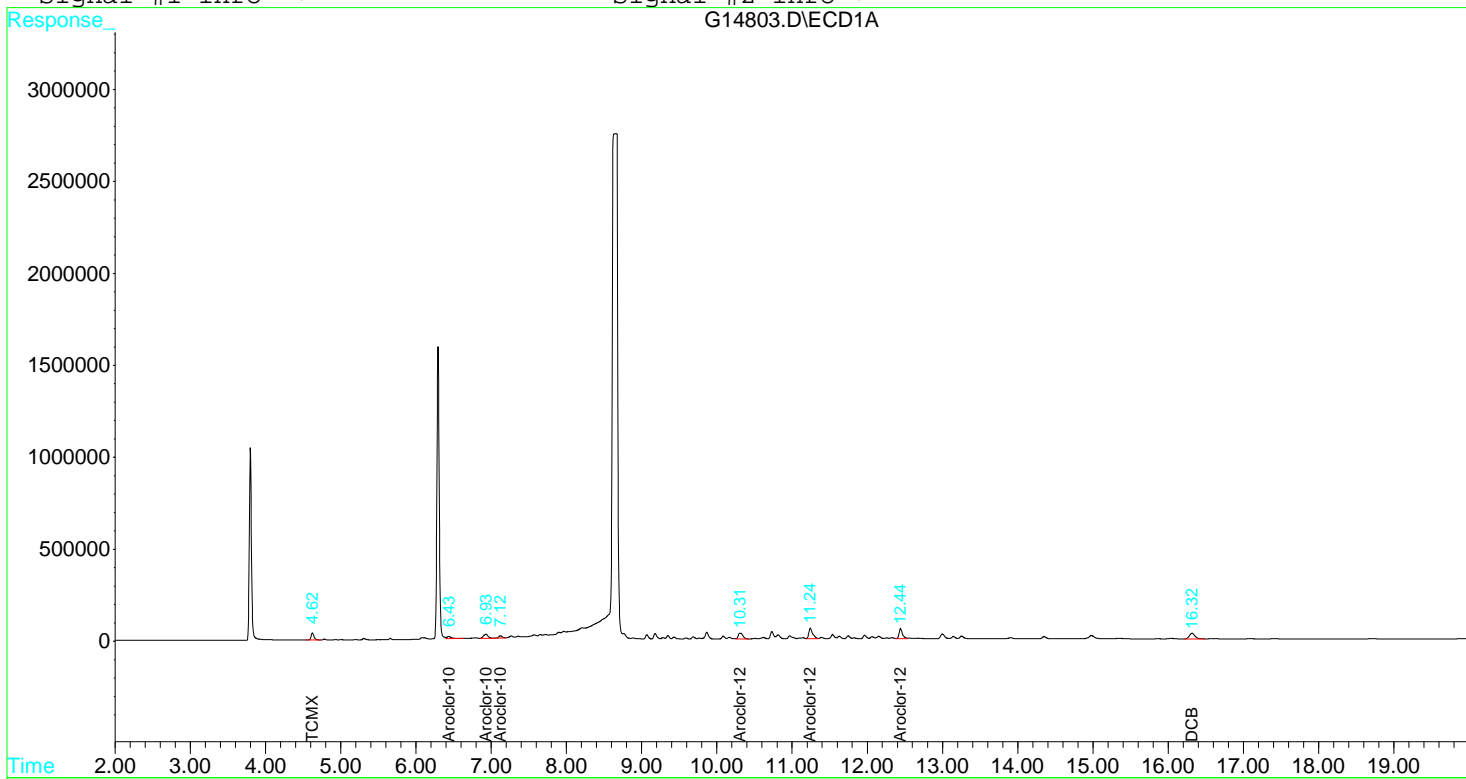
Target Compounds

2) L1 Aroclor-1016	6.43f	6.71	48422	55647	9.991	7.513
3) L1 Aroclor-1016 {2}	6.93f	7.58f	110848	78339	7.907	5.771 #
4) L1 Aroclor-1016 {3}	7.12f	7.83f	47719	38275	7.574m	5.995
20) L7 Aroclor-1260	10.31f	11.35f	134047	157537	13.730	13.349
21) L7 Aroclor-1260 {2}	11.24f	12.67f	198766	87054	13.935m	10.647m
22) L7 Aroclor-1260 {3}	12.44f	13.94f	172703	129177	8.373	9.077m

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18  
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH  
Acq On : 28 Dec 2015 17:40 Operator: JAM  
Sample : B5L2402-MS2 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 10:09:57 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MSD2
Column:	2	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016 [2C]	370	218	59.0	8.47	30	40 - 140
Aroclor-1016 (1) [2C]	370	253	68.4	9.30	30	40 - 140
Aroclor-1016 (2) [2C]	370	197	53.4	7.80	30	40 - 140
Aroclor-1016 (3) [2C]	370	205	55.3	8.09	30	40 - 140
Aroclor-1260 [2C]	370	385	104	5.75	30	40 - 140
Aroclor-1260 (1) [2C]	370	439	119	11.8	30	40 - 140
Aroclor-1260 (2) [2C]	370	395	107	0.338	30	40 - 140
Aroclor-1260 (3) [2C]	370	321	86.8	4.45	30	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH  
 Acq On : 28 Dec 2015 18:09 Operator: JAM  
 Sample : B5L2402-MSD2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	96355	95753	0.508	0.422
Spiked Amount	1.000		Recovery	=	50.80%	42.20%
29) AS DCB	16.31f	17.62f	149412	225256	0.503m	0.789m#
Spiked Amount	1.000		Recovery	=	50.30%	78.90%

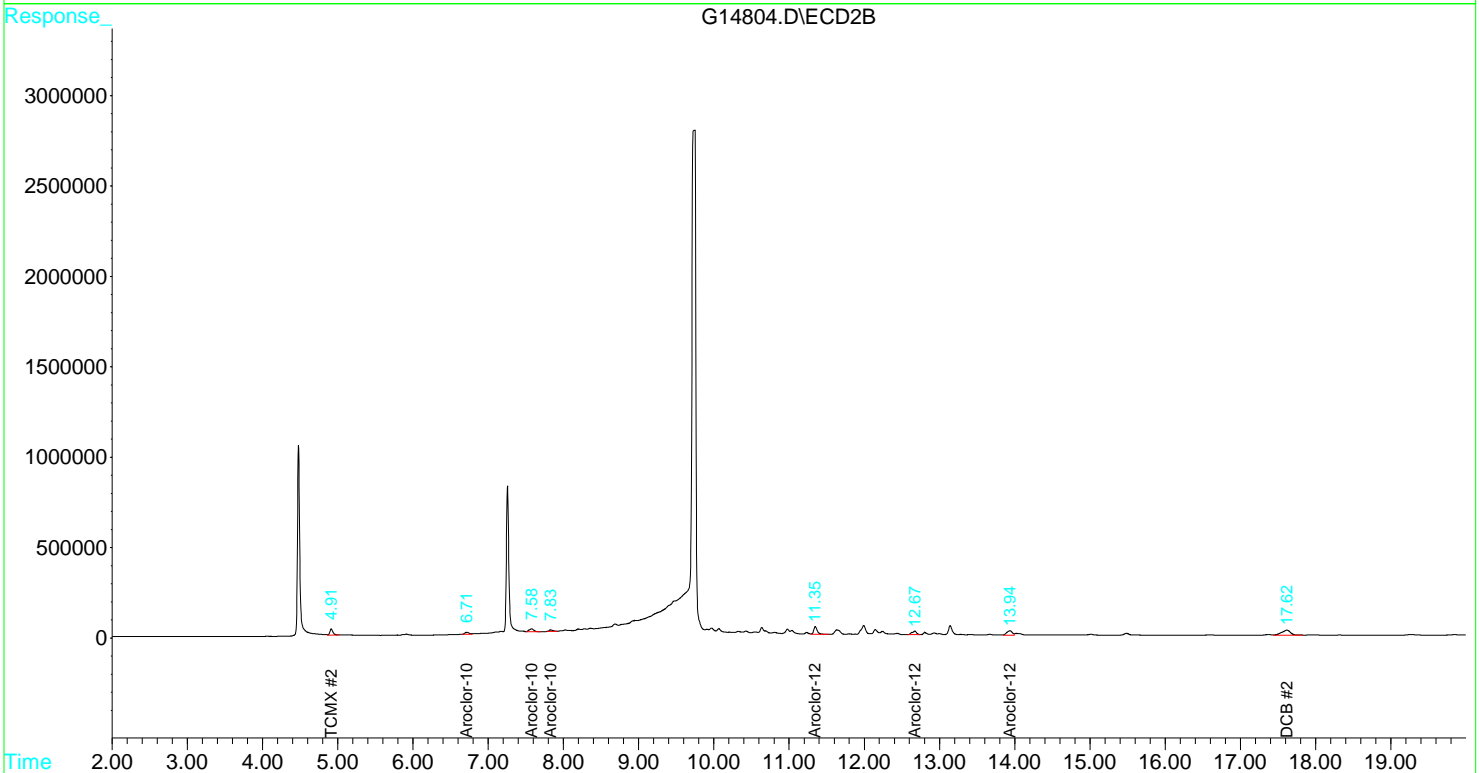
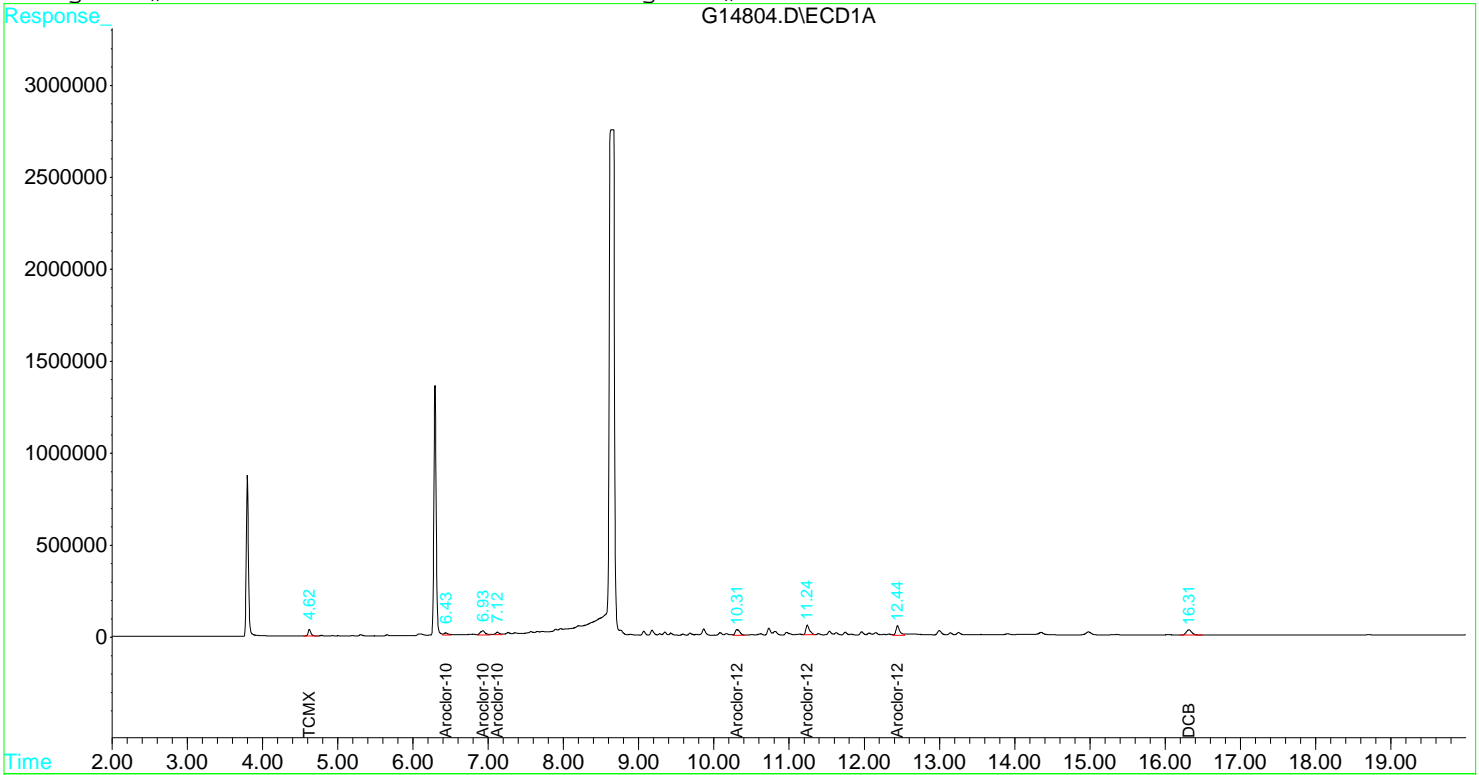
Target Compounds

2) L1 Aroclor-1016	6.43f	6.71	47392	50697	9.778m	6.845 #
3) L1 Aroclor-1016 {2}	6.93f	7.58f	99352	72459	7.087m	5.338
4) L1 Aroclor-1016 {3}	7.12f	7.83f	46672	35303	7.408m	5.529 #
20) L7 Aroclor-1260	10.31f	11.35f	133447	139939	13.669m	11.858
21) L7 Aroclor-1260 {2}	11.24f	12.67f	185531	87348	13.007m	10.683
22) L7 Aroclor-1260 {3}	12.44f	13.94f	182027	123560	8.825	8.682m

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19  
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH  
Acq On : 28 Dec 2015 18:09 Operator: JAM  
Sample : B5L2402-MSD2 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 10:09:57 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :







## LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS1
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	9.63	96.3	40 - 140
beta-BHC	10.0	10.1	101	40 - 140
delta-BHC	10.0	11.1	111	40 - 140
gamma-BHC [Lindane]	10.0	10.0	100	40 - 140
Heptachlor	10.0	9.80	98.0	40 - 140
Aldrin	10.0	9.87	98.7	40 - 140
Heptachlor Epoxide	10.0	10.7	107	40 - 140
Endosulfan I	10.0	8.63	86.3	40 - 140
Dieldrin	10.0	10.1	101	40 - 140
4,4'-DDE	10.0	9.93	99.3	40 - 140
Endrin	10.0	11.3	113	40 - 140
Endosulfan II	10.0	10.3	103	40 - 140
4,4'-DDD	10.0	9.70	97.0	40 - 140
Endosulfan sulfate	10.0	9.67	96.7	40 - 140
4,4'-DDT	10.0	10.9	109	40 - 140
Methoxychlor	10.0	11.0	110	40 - 140
Endrin ketone	10.0	11.0	110	40 - 140
Endrin aldehyde	10.0	10.8	108	40 - 140
alpha-Chlordane	10.0	11.7	117	40 - 140
gamma-Chlordane	10.0	10.5	105	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH  
 Acq On : 28 Dec 2015 13:17 Operator: JAM  
 Sample : B5L2402-BS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.92	1363648	1560460	0.773	0.751
Spiked Amount	1.000	Range	30 - 150	Recovery	= 77.30%	75.10%
2) AS Decachlorobiphen	16.31	17.62f	2495442	2447284	0.949	0.959
Spiked Amount	1.000	Range	30 - 150	Recovery	= 94.90%	95.90%

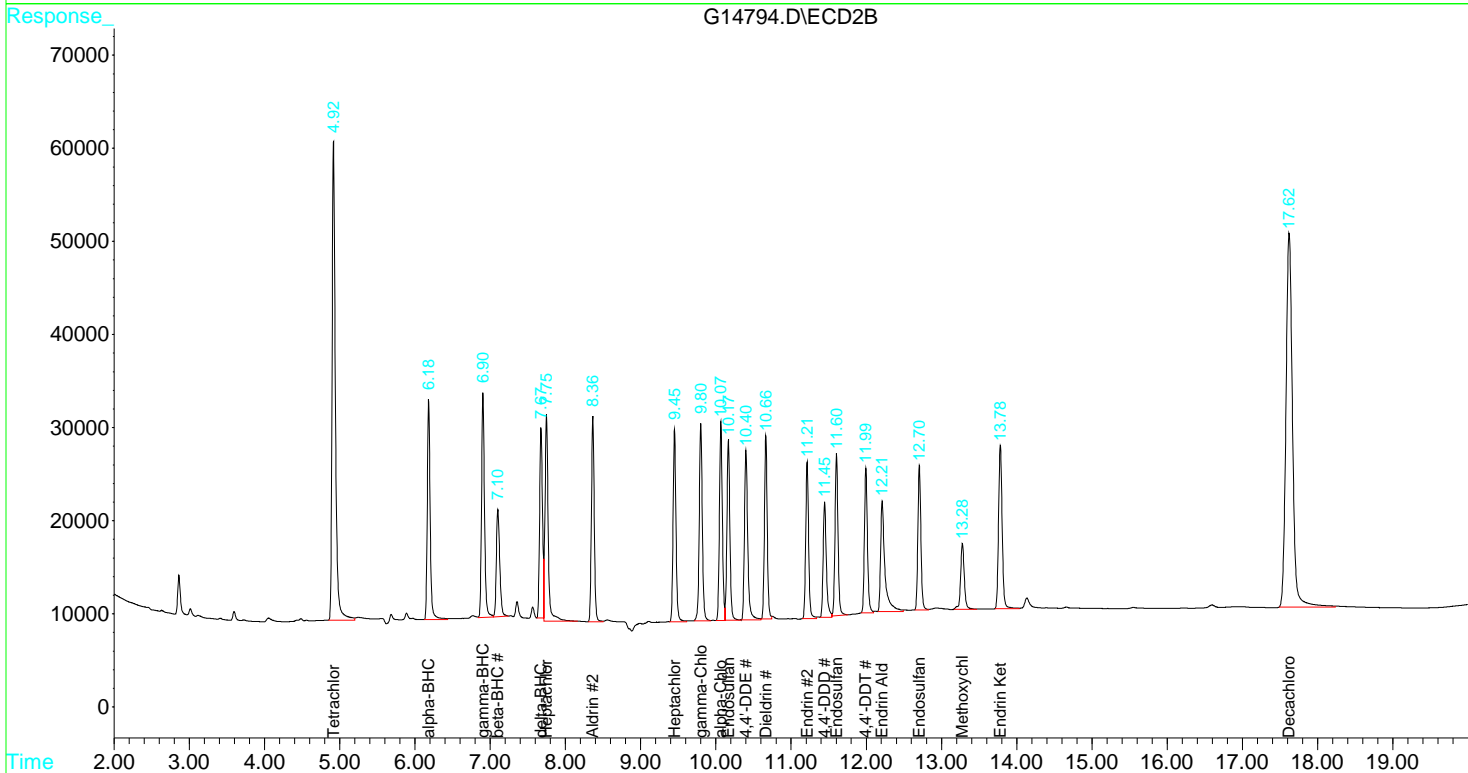
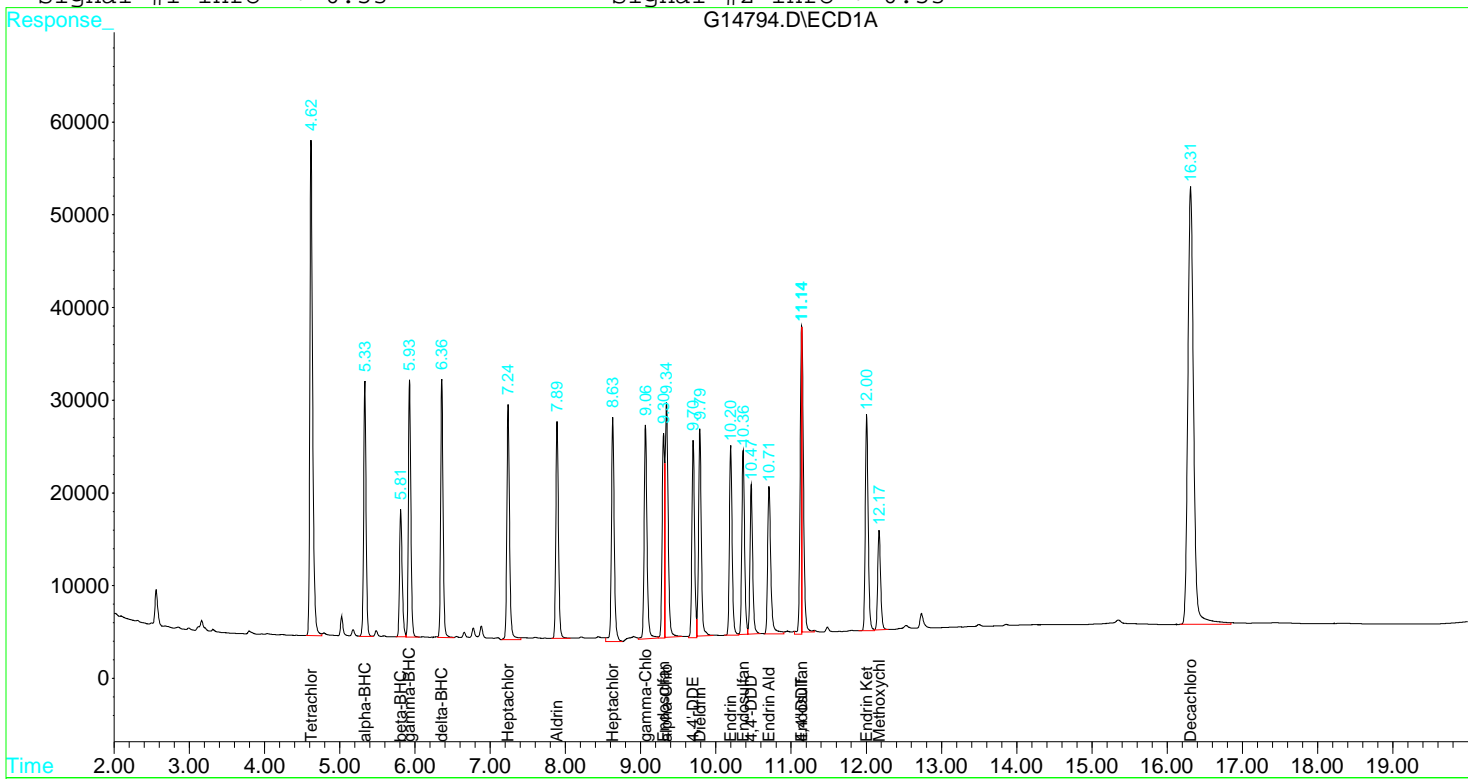
Target Compounds

2) A alpha-BHC	5.33	6.18	608810	636224	0.289	0.269
3) AM gamma-BHC (Linda)	5.93	6.90	620538	652434	0.300	0.280
4) AM Heptachlor	7.24	7.75	637580	662748	0.294	0.395 #
5) BM Aldrin	7.89	8.36	569628	578324	0.296	0.292
6) B beta-BHC	5.81	7.10	335088	352842	0.302	0.296
7) B delta-BHC	6.36	7.67	610520	554454	0.333	0.304m
8) B Heptachlor Epoxi	8.63	9.45	629200	553714	0.322	0.304
9) A Endosulfan I	9.30	10.17	485498	529216	0.259m	0.303
10) B gamma-Chlordane	9.06	9.80	609900	593078	0.315	0.301
11) B alpha-Chlordane	9.34	10.07	682684	574762	0.352	0.304
12) B 4,4'-DDE	9.70	10.40	530628	549612	0.298m	0.312
13) AM Dieldrin	9.79	10.66	562572	510978	0.302	0.299
14) AM Endrin	10.20	11.21	510840	456344	0.339	0.371
15) B Endosulfan II	10.36	11.60	505952	485276	0.310	0.322
16) A 4,4'-DDD	10.47	11.45	396726	367980	0.291	0.302
17) AM 4,4'-DDT	11.14	11.99	536144	433228	0.328m	0.291
18) B Endrin Aldehyde	10.71	12.21	465438	471096	0.324	0.313
19) B Endosulfan Sulfa	11.14	12.70	457300	433732	0.290m	0.315
20) A Methoxychlor	12.17	13.28	290180	238868	0.329	0.410
21) B Endrin Ketone	12.00	13.78f	622888	587804	0.330	0.335

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH  
 Acq On : 28 Dec 2015 13:17 Operator: JAM  
 Sample : B5L2402-BS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS2
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	333	325	97.4	40 - 140
Aroclor-1016 (1)	333	316	94.8	40 - 140
Aroclor-1016 (2)	333	346	104	40 - 140
Aroclor-1016 (3)	333	312	93.6	40 - 140
Aroclor-1260	333	316	94.7	40 - 140
Aroclor-1260 (1)	333	298	89.5	40 - 140
Aroclor-1260 (2)	333	293	87.9	40 - 140
Aroclor-1260 (3)	333	355	107	40 - 140

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH  
 Acq On : 28 Dec 2015 18:38 Operator: JAM  
 Sample : B5L2402-BS2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	162200	173570	0.855	0.766
Spiked Amount	1.000		Recovery	=	85.50%	76.60%
29) AS DCB	16.31f	17.62f	254954	259434	0.858m	0.909m
Spiked Amount	1.000		Recovery	=	85.80%	90.90%

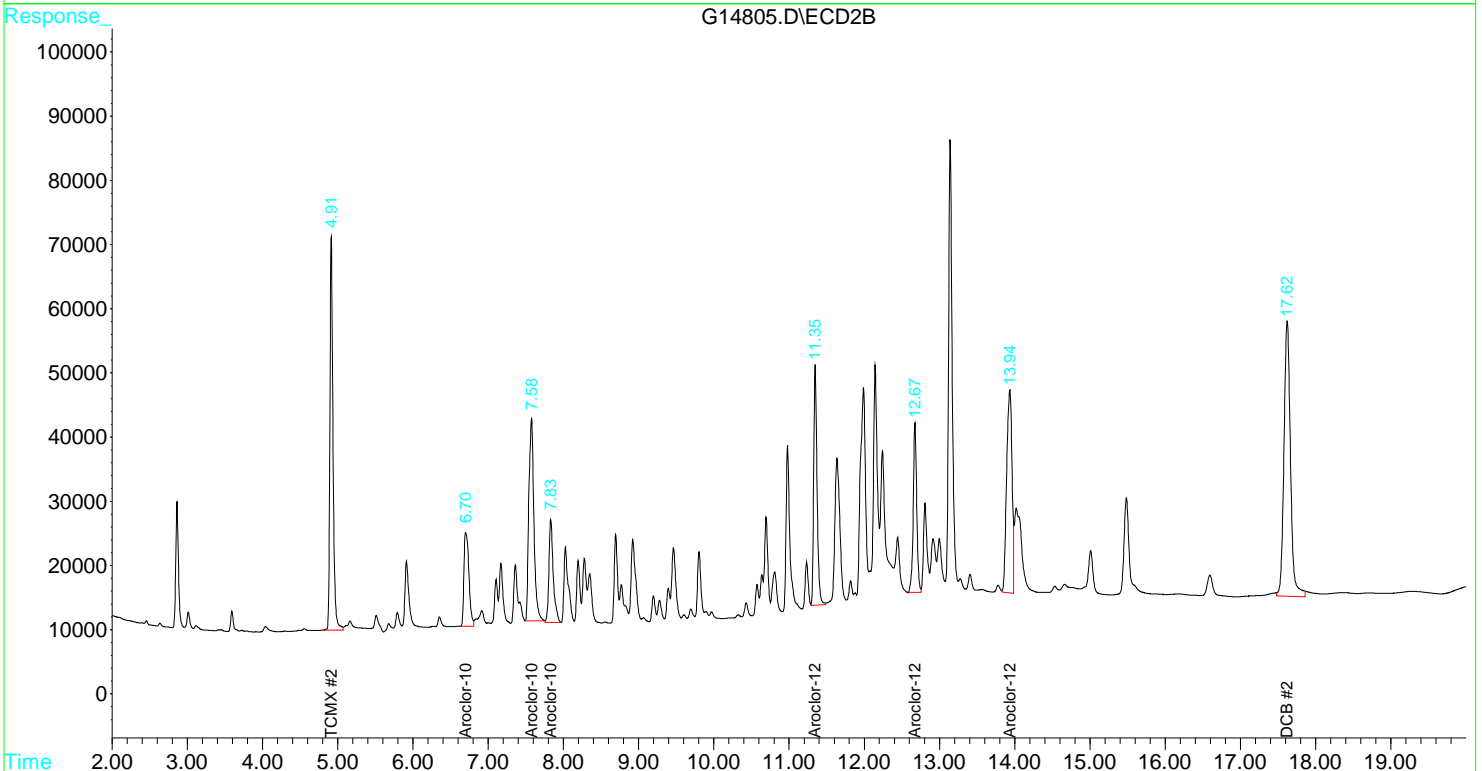
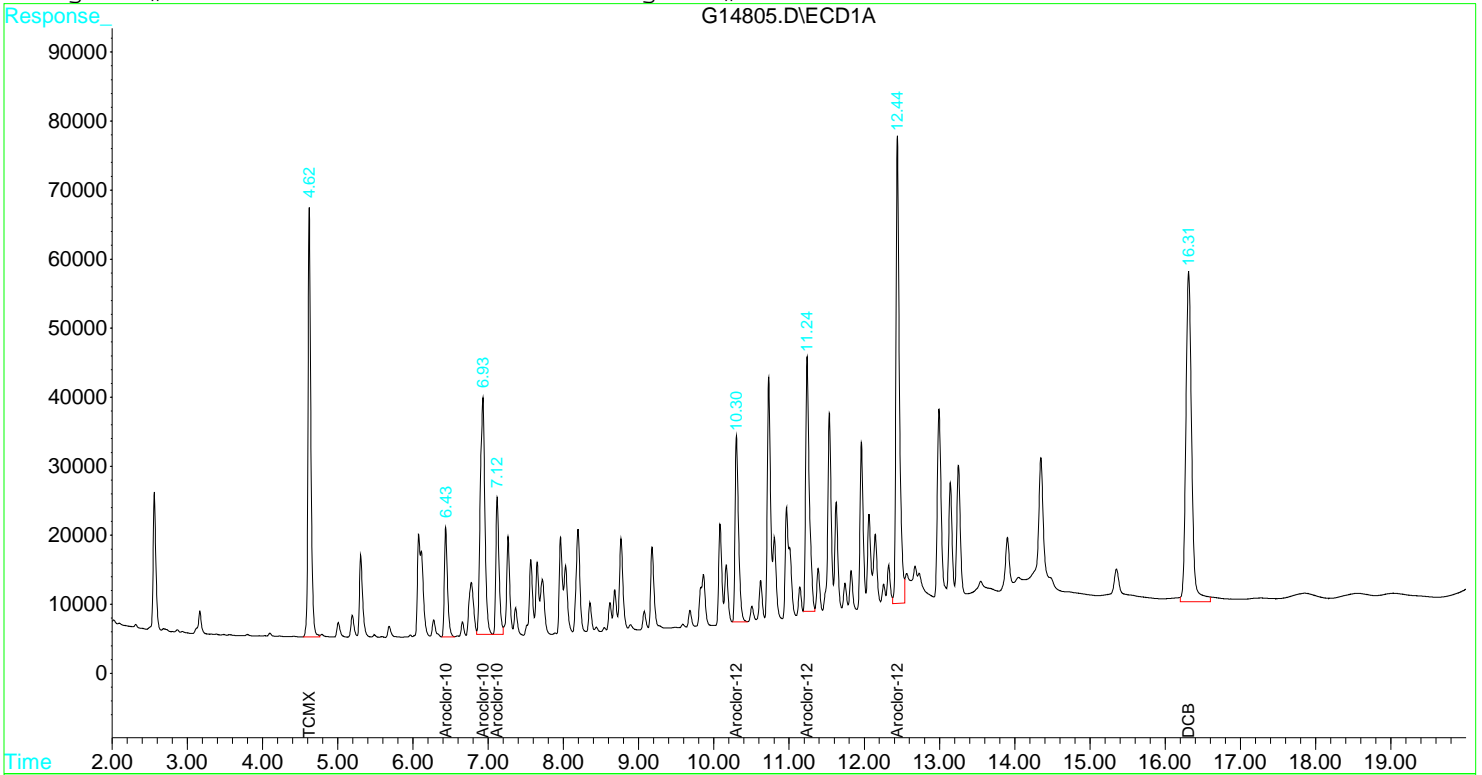
Target Compounds

2) L1 Aroclor-1016	6.43f	6.70f	45930	66571	9.476	8.988
3) L1 Aroclor-1016 {2}	6.93f	7.58f	145607	147508	10.387	10.866
4) L1 Aroclor-1016 {3}	7.12f	7.83f	58992	63283	9.364	9.911
20) L7 Aroclor-1260	10.30f	11.35f	87410	117102	8.953	9.923
21) L7 Aroclor-1260 {2}	11.24f	12.67f	125349	85329	8.788	10.436
22) L7 Aroclor-1260 {3}	12.44f	13.94f	219867	158994	10.660	11.172m

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH  
 Acq On : 28 Dec 2015 18:38 Operator: JAM  
 Sample : B5L2402-BS2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :





## LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS1
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.0	8.97	89.7	40 - 140
beta-BHC [2C]	10.0	9.87	98.7	40 - 140
delta-BHC [2C]	10.0	10.1	101	40 - 140
gamma-BHC [Lindane] [2C]	10.0	9.33	93.3	40 - 140
Heptachlor [2C]	10.0	13.2	132	40 - 140
Aldrin [2C]	10.0	9.73	97.3	40 - 140
Heptachlor Epoxide [2C]	10.0	10.1	101	40 - 140
Endosulfan I [2C]	10.0	10.1	101	40 - 140
Dieldrin [2C]	10.0	9.97	99.7	40 - 140
4,4'-DDE [2C]	10.0	10.4	104	40 - 140
Endrin [2C]	10.0	12.4	124	40 - 140
Endosulfan II [2C]	10.0	10.7	107	40 - 140
4,4'-DDD [2C]	10.0	10.1	101	40 - 140
Endosulfan sulfate [2C]	10.0	10.5	105	40 - 140
4,4'-DDT [2C]	10.0	9.70	97.0	40 - 140
Methoxychlor [2C]	10.0	13.7	137	40 - 140
Endrin ketone [2C]	10.0	11.2	112	40 - 140
Endrin aldehyde [2C]	10.0	10.4	104	40 - 140
alpha-Chlordane [2C]	10.0	10.1	101	40 - 140
gamma-Chlordane [2C]	10.0	10.0	100	40 - 140

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH  
 Acq On : 28 Dec 2015 13:17 Operator: JAM  
 Sample : B5L2402-BS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.92	1363648	1560460	0.773	0.751
Spiked Amount	1.000	Range	30 - 150	Recovery =	77.30%	75.10%
2) AS Decachlorobiphen	16.31	17.62f	2495442	2447284	0.949	0.959
Spiked Amount	1.000	Range	30 - 150	Recovery =	94.90%	95.90%

Target Compounds

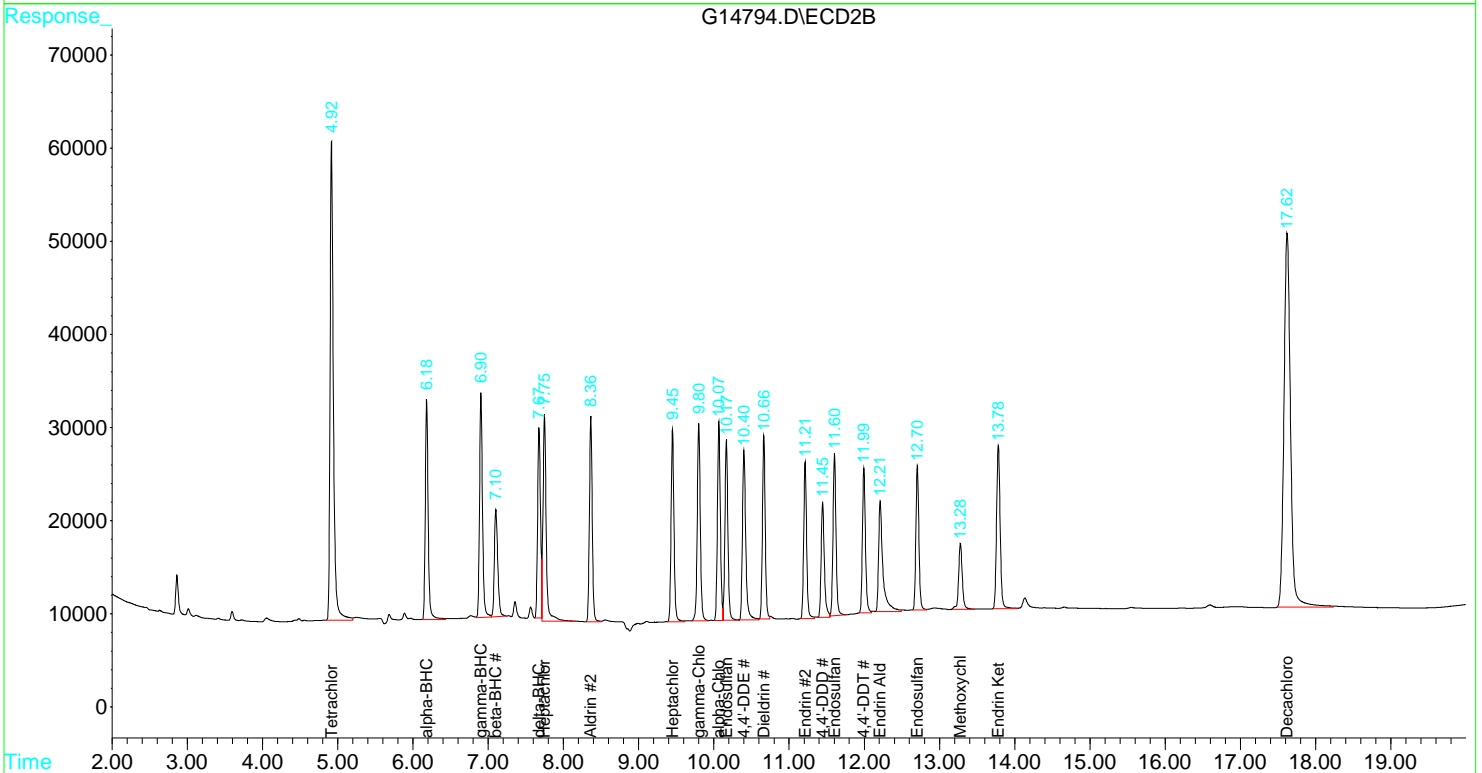
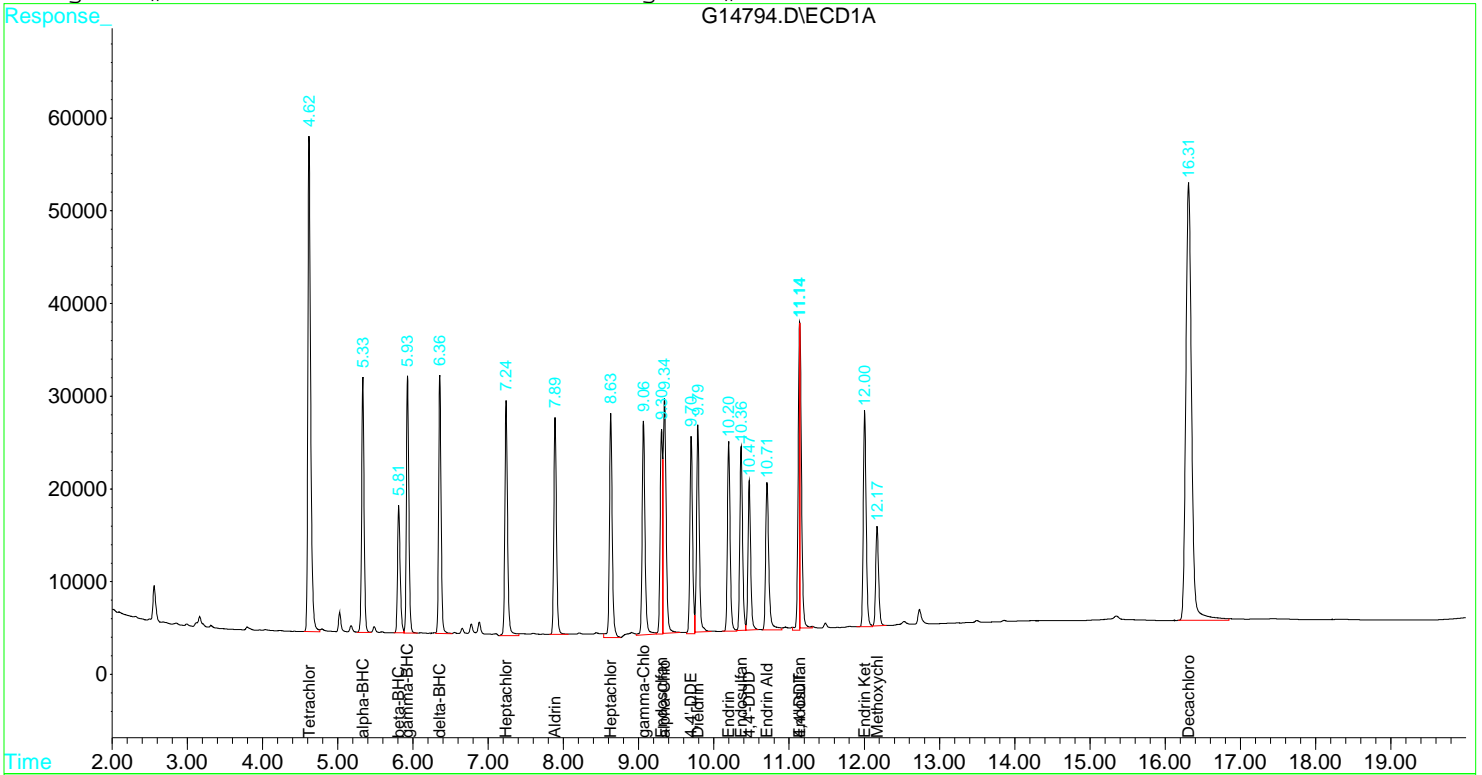
2) A alpha-BHC	5.33	6.18	608810	636224	0.289	0.269
3) AM gamma-BHC (Linda)	5.93	6.90	620538	652434	0.300	0.280
4) AM Heptachlor	7.24	7.75	637580	662748	0.294	0.395 #
5) BM Aldrin	7.89	8.36	569628	578324	0.296	0.292
6) B beta-BHC	5.81	7.10	335088	352842	0.302	0.296
7) B delta-BHC	6.36	7.67	610520	554454	0.333	0.304m
8) B Heptachlor Epoxi	8.63	9.45	629200	553714	0.322	0.304
9) A Endosulfan I	9.30	10.17	485498	529216	0.259m	0.303
10) B gamma-Chlordane	9.06	9.80	609900	593078	0.315	0.301
11) B alpha-Chlordane	9.34	10.07	682684	574762	0.352	0.304
12) B 4,4'-DDE	9.70	10.40	530628	549612	0.298m	0.312
13) AM Dieldrin	9.79	10.66	562572	510978	0.302	0.299
14) AM Endrin	10.20	11.21	510840	456344	0.339	0.371
15) B Endosulfan II	10.36	11.60	505952	485276	0.310	0.322
16) A 4,4'-DDD	10.47	11.45	396726	367980	0.291	0.302
17) AM 4,4'-DDT	11.14	11.99	536144	433228	0.328m	0.291
18) B Endrin Aldehyde	10.71	12.21	465438	471096	0.324	0.313
19) B Endosulfan Sulfa	11.14	12.70	457300	433732	0.290m	0.315
20) A Methoxychlor	12.17	13.28	290180	238868	0.329	0.410
21) B Endrin Ketone	12.00	13.78f	622888	587804	0.330	0.335



Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH  
 Acq On : 28 Dec 2015 13:17 Operator: JAM  
 Sample : B5L2402-BS1 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS2
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	333	331	99.2	40 - 140
Aroclor-1016 (1) [2C]	333	300	89.9	40 - 140
Aroclor-1016 (2) [2C]	333	362	109	40 - 140
Aroclor-1016 (3) [2C]	333	330	99.1	40 - 140
Aroclor-1260 [2C]	333	350	105	40 - 140
Aroclor-1260 (1) [2C]	333	331	99.2	40 - 140
Aroclor-1260 (2) [2C]	333	348	104	40 - 140
Aroclor-1260 (3) [2C]	333	372	112	40 - 140

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH  
 Acq On : 28 Dec 2015 18:38 Operator: JAM  
 Sample : B5L2402-BS2 Inst : GCECD\_GH  
 Misc : SOIL 12/24/15 Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.91f	162200	173570	0.855	0.766
Spiked Amount	1.000		Recovery	=	85.50%	76.60%
29) AS DCB	16.31f	17.62f	254954	259434	0.858m	0.909m
Spiked Amount	1.000		Recovery	=	85.80%	90.90%

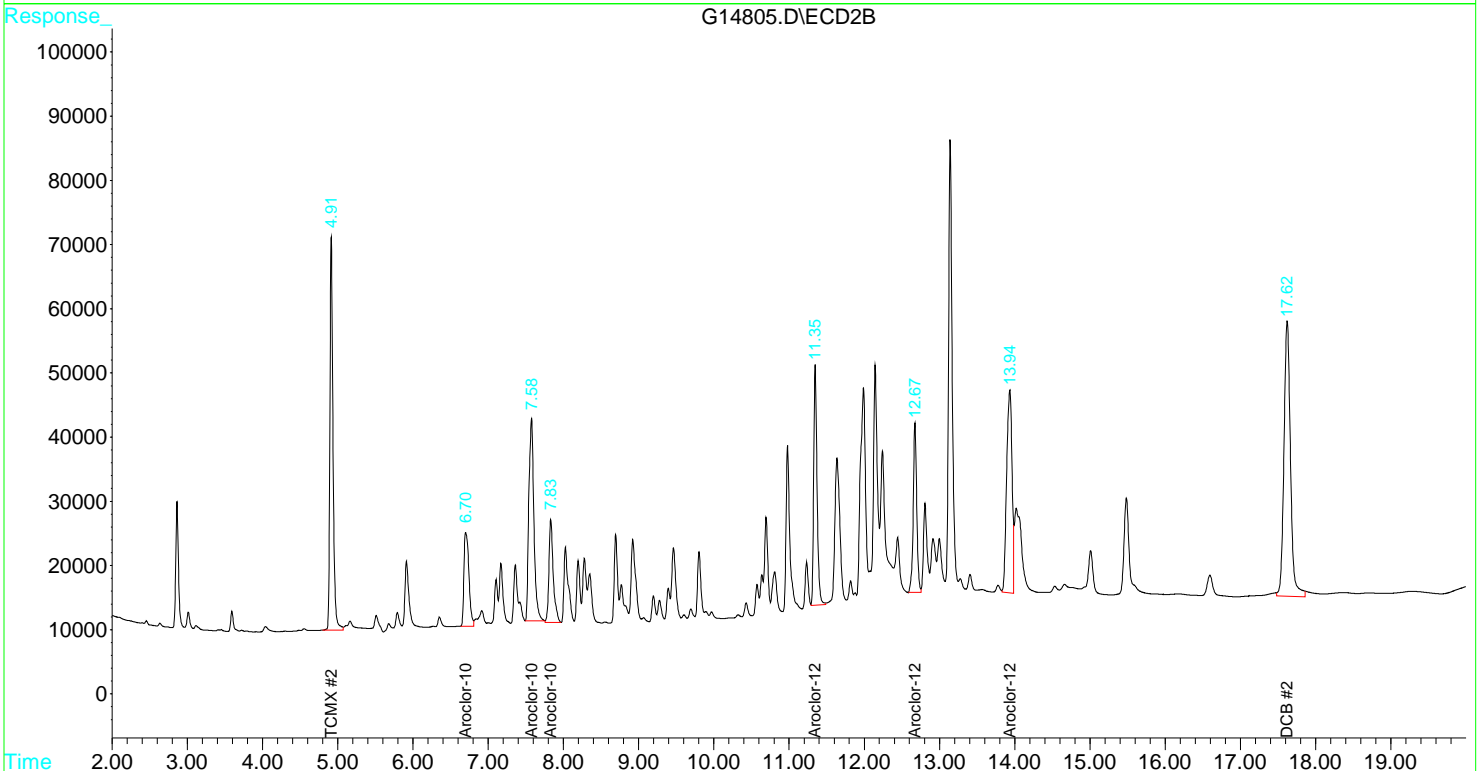
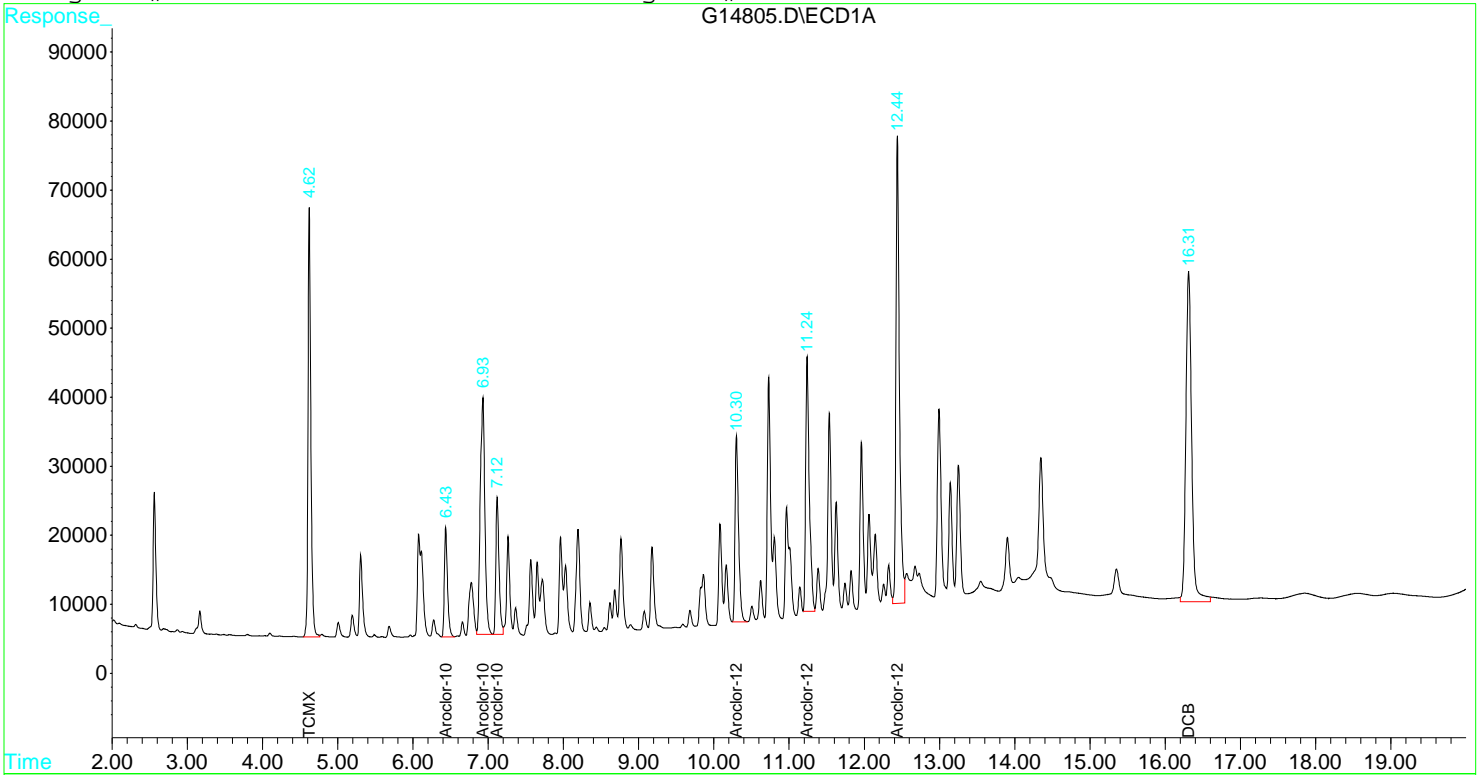
Target Compounds

2) L1 Aroclor-1016	6.43f	6.70f	45930	66571	9.476	8.988
3) L1 Aroclor-1016 {2}	6.93f	7.58f	145607	147508	10.387	10.866
4) L1 Aroclor-1016 {3}	7.12f	7.83f	58992	63283	9.364	9.911
20) L7 Aroclor-1260	10.30f	11.35f	87410	117102	8.953	9.923
21) L7 Aroclor-1260 {2}	11.24f	12.67f	125349	85329	8.788	10.436
22) L7 Aroclor-1260 {3}	12.44f	13.94f	219867	158994	10.660	11.172m

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20  
Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH  
Acq On : 28 Dec 2015 18:38 Operator: JAM  
Sample : B5L2402-BS2 Inst : GCECD\_GH  
Misc : SOIL 12/24/15 Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 10:09:57 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :





## METHOD BLANK SUMMARY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL  
Work Order: 1502323  
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2402-BLK1	Batch:	B5L2402
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5L2402-BS1	G14794.D	12/28/2015 13:17
EP-18	1502323-01	G14797.D	12/28/2015 14:44
Matrix Spike	B5L2402-MS1	G14801.D	12/28/2015 16:41
Matrix Spike Dup	B5L2402-MSD1	G14802.D	12/28/2015 17:11
Matrix Spike	B5L2402-MS2	G14803.D	12/28/2015 17:40
Matrix Spike Dup	B5L2402-MSD2	G14804.D	12/28/2015 18:09
LCS	B5L2402-BS2	G14805.D	12/28/2015 18:38



## ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

Sequence: S5L1105	Instrument: GCECD_GHF
Calibration: 15L1702	

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S5L1105-PEM1	G14601.D	12/11/15 08:33
Cal Standard	S5L1105-CAL1	G14602.D	12/11/15 09:47
Cal Standard	S5L1105-CAL2	G14603.D	12/11/15 10:16
Cal Standard	S5L1105-CAL3	G14604.D	12/11/15 10:46
Cal Standard	S5L1105-CAL4	G14605.D	12/11/15 11:15
Cal Standard	S5L1105-CAL5	G14606.D	12/11/15 11:44
Cal Standard	S5L1105-CAL6	G14607.D	12/11/15 15:59
Cal Standard	S5L1105-CAL7	G14608.D	12/11/15 16:28
Cal Standard	S5L1105-CAL8	G14609.D	12/11/15 16:57
Cal Standard	S5L1105-CAL9	G14610.D	12/11/15 17:26
Cal Standard	S5L1105-CALA	G14611.D	12/11/15 17:56
Cal Standard	S5L1105-CALB	G14612.D	12/11/15 18:25
Cal Standard	S5L1105-CALC	G14613.D	12/11/15 18:54
Cal Standard	S5L1105-CALD	G14614.D	12/11/15 19:23
Cal Standard	S5L1105-CALE	G14615.D	12/11/15 19:52
Cal Standard	S5L1105-CALF	G14616.D	12/11/15 20:21
Cal Standard	S5L1105-CALG	G14617.D	12/11/15 20:51
Cal Standard	S5L1105-CALH	G14618.D	12/11/15 21:20
Cal Standard	S5L1105-CALI	G14619.D	12/11/15 21:49
Cal Standard	S5L1105-CALJ	G14620.D	12/11/15 22:18
Cal Standard	S5L1105-CALK	G14621.D	12/11/15 22:47
Aroclor Reference	S5L1105-ARC1	G14622.D	12/11/15 23:16
Aroclor Reference	S5L1105-ARC2	G14623.D	12/11/15 23:46



## ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

Sequence:	S5L1105	Instrument:	GCECD_GHF
Calibration:	15L1702		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Aroclor Reference	S5L1105-ARC3	G14624.D	12/12/15 00:15
Aroclor Reference	S5L1105-ARC4	G14625.D	12/12/15 00:44



## ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL

**Project:** 255 East 138th Street, Bronx, NY

Sequence: S5L2801	Instrument: GCECD_GHF
Calibration: 15L1702	

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S5L2801-PEM1	G14787.D	12/28/15 09:08
Calibration Check	S5L2801-CCV1	G14788.D	12/28/15 09:37
Calibration Check	S5L2801-CCV2	G14789.D	12/28/15 10:06
Calibration Check	S5L2801-CCV3	G14790.D	12/28/15 11:19
Calibration Check	S5L2801-CCV4	G14791.D	12/28/15 11:49
Blank	B5L2402-BLK1	G14793.D	12/28/15 12:48
LCS	B5L2402-BS1	G14794.D	12/28/15 13:17
EP-18	1502323-01	G14797.D	12/28/15 14:44
Matrix Spike	B5L2402-MS1	G14801.D	12/28/15 16:41
Matrix Spike Dup	B5L2402-MSD1	G14802.D	12/28/15 17:11
Matrix Spike	B5L2402-MS2	G14803.D	12/28/15 17:40
Matrix Spike Dup	B5L2402-MSD2	G14804.D	12/28/15 18:09
LCS	B5L2402-BS2	G14805.D	12/28/15 18:38



# PEST/PCB CALIBRATION DATA



## INITIAL CALIBRATION DATA

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702	Instrument: GCECD_GHF
	Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
alpha-BHC	0.08	2.475142E+07	0.04	2.337055E+07	0.02	2.1423E+07	0.01	1.86192E+07	0.002	1.7343E+07		
alpha-BHC [2C]	0.08	2.63263E+07	0.04	2.34828E+07	0.02	2.25799E+07	0.01	2.18622E+07	0.002	2.3788E+07		
beta-BHC											0.08	1.096533E+07
beta-BHC [2C]											0.08	1.188443E+07
delta-BHC											0.08	2.187782E+07
delta-BHC [2C]											0.08	2.142442E+07
gamma-BHC [Lindane]	0.08	2.3227E+07	0.04	2.2355E+07	0.02	2.10446E+07	0.01	1.88256E+07	0.002	1.787E+07		
gamma-BHC [Lindane] [2C]	0.08	2.391728E+07	0.04	2.28579E+07	0.02	2.24753E+07	0.01	2.24876E+07	0.002	2.4659E+07		
Heptachlor	0.08	2.194905E+07	0.04	2.15601E+07	0.02	2.1152E+07	0.01	2.05092E+07	0.002	2.3099E+07		
Heptachlor [2C]	0.08	1.799895E+07	0.04	1.69782E+07	0.02	1.61315E+07	0.01	1.5824E+07	0.002	1.6915E+07		
Aldrin											0.08	2.133208E+07
Aldrin [2C]											0.08	2.044845E+07
Heptachlor Epoxide											0.08	1.94086E+07
Heptachlor Epoxide [2C]											0.08	1.817628E+07
Endosulfan I	0.08	1.864608E+07	0.04	1.82091E+07	0.02	1.78438E+07	0.01	1.74192E+07	0.002	2.1433E+07		
Endosulfan I [2C]	0.08	1.70763E+07	0.04	1.70714E+07	0.02	1.72752E+07	0.01	1.7221E+07	0.002	1.8623E+07		
Dieldrin	0.16	1.962618E+07	0.08	1.93523E+07	0.04	1.873735E+07	0.02	1.75021E+07	0.004	1.7835E+07		
Dieldrin [2C]	0.16	1.76791E+07	0.08	1.717205E+07	0.04	1.670395E+07	0.02	1.61781E+07	0.004	1.78225E+07		
4,4'-DDE											0.16	1.896086E+07
4,4'-DDE [2C]											0.16	1.827421E+07
Endrin	0.16	1.573655E+07	0.08	1.52468E+07	0.04	1.47961E+07	0.02	1.40535E+07	0.004	1.5449E+07		
Endrin [2C]	0.16	1.28823E+07	0.08	1.217128E+07	0.04	1.19232E+07	0.02	1.16878E+07	0.004	1.2788E+07		
Endosulfan II											0.16	1.664688E+07
Endosulfan II [2C]											0.16	1.552751E+07
4,4'-DDD	0.16	1.433124E+07	0.08	1.417223E+07	0.04	1.377655E+07	0.02	1.29053E+07	0.004	1.29205E+07		
4,4'-DDD [2C]	0.16	1.243611E+07	0.08	1.20249E+07	0.04	1.188035E+07	0.02	1.16414E+07	0.004	1.29325E+07		



## INITIAL CALIBRATION DATA

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702	Instrument: GCECD_GHF
	Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Endosulfan sulfate											0.16	1.651615E+07
Endosulfan sulfate [2C]											0.16	1.415703E+07
4,4'-DDT	0.16	1.6523E+07	0.08	1.651558E+07	0.04	1.63938E+07	0.02	1.57921E+07	0.004	1.644E+07		
4,4'-DDT [2C]	0.16	1.480073E+07	0.08	1.47351E+07	0.04	1.48111E+07	0.02	1.4633E+07	0.004	1.55245E+07		
Methoxychlor	0.8	7677890	0.4	8131430	0.2	8723560	0.1	9140880	0.02	1.04596E+07		
Methoxychlor [2C]	0.8	5902403	0.4	5781465	0.2	5880820	0.1	5769540	0.02	5783800		
Endrin ketone											0.16	1.910728E+07
Endrin ketone [2C]											0.16	1.794464E+07
Endrin aldehyde											0.16	1.369123E+07
Endrin aldehyde [2C]											0.16	1.396409E+07
alpha-Chlordane											0.08	2.011105E+07
alpha-Chlordane [2C]											0.08	1.86528E+07
gamma-Chlordane											0.08	2.028325E+07
gamma-Chlordane [2C]											0.08	1.884325E+07
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												
Aroclor-1016												
Aroclor-1016 (1)												



## INITIAL CALIBRATION DATA

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702	Instrument: GCECD_GHF
	Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene	0.08	1.617658E+07	0.04	1.716955E+07	0.02	1.7759E+07	0.01	1.7567E+07	0.002	1.952E+07		
Tetrachloro-m-xylene [2C]	0.08	1.678252E+07	0.04	2.01495E+07	0.02	2.07403E+07	0.01	2.09472E+07	0.002	2.5267E+07		
Decachlorobiphenyl	0.16	2.22491E+07	0.08	2.415738E+07	0.04	2.589215E+07	0.02	2.72726E+07	0.004	3.1969E+07		
Decachlorobiphenyl [2C]	0.16	2.230035E+07	0.08	2.370175E+07	0.04	2.50907E+07	0.02	2.59296E+07	0.004	3.0561E+07		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC	0.04	1.12782E+07	0.02	1.10199E+07	0.01	1.1082E+07	0.002	1.1125E+07				
beta-BHC [2C]	0.04	1.195655E+07	0.02	1.19068E+07	0.01	1.25978E+07	0.002	1.1269E+07				
delta-BHC	0.04	2.069225E+07	0.02	1.81371E+07	0.01	1.63048E+07	0.002	1.457E+07				
delta-BHC [2C]	0.04	1.9427E+07	0.02	1.82652E+07	0.01	1.71522E+07	0.002	1.5028E+07				
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin	0.04	2.04077E+07	0.02	1.86125E+07	0.01	1.8044E+07	0.002	1.769E+07				
Aldrin [2C]	0.04	1.990035E+07	0.02	1.89371E+07	0.01	1.9374E+07	0.002	2.0407E+07				
Heptachlor Epoxide	0.04	1.91084E+07	0.02	1.81751E+07	0.01	1.86984E+07	0.002	2.237E+07				
Heptachlor Epoxide [2C]	0.04	1.81187E+07	0.02	1.75577E+07	0.01	1.81536E+07	0.002	1.9123E+07				
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE	0.08	1.864532E+07	0.04	1.75318E+07	0.02	1.71385E+07	0.004	1.6634E+07				
4,4'-DDE [2C]	0.08	1.765712E+07	0.04	1.688485E+07	0.02	1.71302E+07	0.004	1.8273E+07				
Endrin												
Endrin [2C]												
Endosulfan II	0.08	1.677558E+07	0.04	1.60867E+07	0.02	1.60155E+07	0.004	1.62065E+07				
Endosulfan II [2C]	0.08	1.540298E+07	0.04	1.478385E+07	0.02	1.48084E+07	0.004	1.4881E+07				
4,4'-DDD												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate	0.08	1.631328E+07	0.04	1.54793E+07	0.02	1.50542E+07	0.004	1.5367E+07				
Endosulfan sulfate [2C]	0.08	1.39014E+07	0.04	1.33994E+07	0.02	1.34565E+07	0.004	1.3979E+07				
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone	0.08	1.935815E+07	0.04	1.880105E+07	0.02	1.87998E+07	0.004	1.8362E+07				
Endrin ketone [2C]	0.08	1.794855E+07	0.04	1.73817E+07	0.02	1.7355E+07	0.004	1.6972E+07				
Endrin aldehyde	0.08	1.39917E+07	0.04	1.396455E+07	0.02	1.44918E+07	0.004	1.56735E+07				
Endrin aldehyde [2C]	0.08	1.444255E+07	0.04	1.466335E+07	0.02	1.54633E+07	0.004	1.6703E+07				
alpha-Chlordane	0.04	1.97123E+07	0.02	1.87054E+07	0.01	1.88904E+07	0.002	1.9453E+07				
alpha-Chlordane [2C]	0.04	1.86941E+07	0.02	1.82663E+07	0.01	1.89038E+07	0.002	2.0044E+07				
gamma-Chlordane	0.04	1.97682E+07	0.02	1.86571E+07	0.01	1.87578E+07	0.002	1.9249E+07				
gamma-Chlordane [2C]	0.04	1.873805E+07	0.02	1.83086E+07	0.01	1.9108E+07	0.002	2.338E+07				
Toxaphene									10	164825.7	5	192180.4
Toxaphene (1)									10	178256.2	5	207083.2
Toxaphene (2)									10	177925.2	5	217655.6
Toxaphene (3)									10	233332.2	5	270776.8
Toxaphene (4)									10	69789	5	73206
Toxaphene [2C]									10	329557.2	5	375679.6
Toxaphene (1) [2C]									10	210256	5	230132
Toxaphene (2) [2C]									10	550133.2	5	619796.4
Toxaphene (3) [2C]									10	250009.6	5	294122.4
Toxaphene (4) [2C]									10	307830	5	358667.2



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD\_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												





## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Calibration: 15L1702

Instrument: GCECD GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene	2.5	204498.2	1	218484	0.1	239335						
Toxaphene (1)	2.5	211148	1	224730	0.1	246220						
Toxaphene (2)	2.5	241136.8	1	272172	0.1	287100						
Toxaphene (3)	2.5	297061.6	1	310270	0.1	343020						
Toxaphene (4)	2.5	68646.4	1	66764	0.1	81000						
Toxaphene [2C]	2.5	369613.2	1	375821	0.1	372520						
Toxaphene (1) [2C]	2.5	231940	1	243252	0.1	273200						
Toxaphene (2) [2C]	2.5	608733.6	1	626690	0.1	598640						
Toxaphene (3) [2C]	2.5	294055.2	1	301186	0.1	388440						
Toxaphene (4) [2C]	2.5	343724	1	332156	0.1	229800						



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Calibration: 15L1702

Instrument: GCECD GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1016							2	74317.65	1.5	77710.47	1	80392.33
Aroclor-1016 (1)							2	43180	1.5	45042.67	1	46890
Aroclor-1016 (2)							2	123907.5	1.5	129560.7	1	134161
Aroclor-1016 (3)							2	55865.5	1.5	58528	1	60126
Aroclor-1016 [2C]							2	84896.65	1.5	89405.8	1	94391.33
Aroclor-1016 (1) [2C]							2	63795.5	1.5	67641.34	1	71830
Aroclor-1016 (2) [2C]							2	128620.5	1.5	134572.7	1	140840
Aroclor-1016 (3) [2C]							2	62274	1.5	66003.34	1	70504
Aroclor-1260							2	136387.2	1.5	140776.5	1	140697.7
Aroclor-1260 (1)							2	84312	1.5	87780	1	88808
Aroclor-1260 (2)							2	130294	1.5	134737.3	1	135067
Aroclor-1260 (3)							2	194555.5	1.5	199812	1	198218
Aroclor-1260 [2C]							2	105165.1	1.5	108340.2	1	111878.7
Aroclor-1260 (1) [2C]							2	104669	1.5	109372	1	114365
Aroclor-1260 (2) [2C]							2	75042	1.5	77698	1	80248
Aroclor-1260 (3) [2C]							2	135784.5	1.5	137950.7	1	141023
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Calibration:** 15L1702

**Instrument:** GCECD\_GHF

**Calibration Date:** 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD\_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Calibration:** 15L1702

**Instrument:** GCECD\_GHF

**Calibration Date:** 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1016	0.5	87738.66	0.1	99270								
Aroclor-1016 (1)	0.5	50796	0.1	56430								
Aroclor-1016 (2)	0.5	146550	0.1	166760								
Aroclor-1016 (3)	0.5	65870	0.1	74620								
Aroclor-1016 [2C]	0.5	92864.66	0.1	94550								
Aroclor-1016 (1) [2C]	0.5	79186	0.1	87890								
Aroclor-1016 (2) [2C]	0.5	133316	0.1	141390								
Aroclor-1016 (3) [2C]	0.5	66092	0.1	54370								
Aroclor-1260	0.5	153822.7	0.1	172530								
Aroclor-1260 (1)	0.5	100458	0.1	126790								
Aroclor-1260 (2)	0.5	147976	0.1	165120								
Aroclor-1260 (3)	0.5	213034	0.1	225680								
Aroclor-1260 [2C]	0.5	117612.7	0.1	127153.3								
Aroclor-1260 (1) [2C]	0.5	123452	0.1	138210								
Aroclor-1260 (2) [2C]	0.5	84830	0.1	90990								
Aroclor-1260 (3) [2C]	0.5	144556	0.1	152260								
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
alpha-BHC	2.110144E+07	14.77137	CCC (20)	
alpha-BHC [2C]	2.360784E+07	7.195401	CCC (20)	
beta-BHC	1.109409E+07	1.076789	CCC (20)	
beta-BHC [2C]	1.192292E+07	3.947219	CCC (20)	
delta-BHC	1.83164E+07	16.47914	CCC (20)	
delta-BHC [2C]	1.825937E+07	13.14637	CCC (20)	
gamma-BHC [Lindane]	2.066444E+07	11.02438	CCC (20)	
gamma-BHC [Lindane] [2C]	2.327942E+07	4.165534	CCC (20)	
Heptachlor	2.165387E+07	4.469361	CCC (20)	
Heptachlor [2C]	1.676953E+07	5.057556	CCC (20)	
Aldrin	1.921726E+07	8.213038	CCC (20)	
Aldrin [2C]	1.981338E+07	3.313624	CCC (20)	
Heptachlor Epoxide	1.95521E+07	8.397413	CCC (20)	
Heptachlor Epoxide [2C]	1.822586E+07	3.092165	CCC (20)	
Endosulfan I	1.871024E+07	8.486997	CCC (20)	
Endosulfan I [2C]	1.745338E+07	3.780914	CCC (20)	
Dieldrin	1.861059E+07	4.974211	CCC (20)	
Dieldrin [2C]	1.711114E+07	3.994474	CCC (20)	
4,4'-DDE	1.77821E+07	5.573956	CCC (20)	
4,4'-DDE [2C]	1.764388E+07	3.621648	CCC (20)	
Endrin	1.505639E+07	4.363545	CCC (20)	
Endrin [2C]	1.229052E+07	4.286292	CCC (20)	
Endosulfan II	1.634623E+07	2.099215	CCC (20)	
Endosulfan II [2C]	1.508075E+07	2.35761	CCC (20)	
4,4'-DDD	1.362116E+07	4.973044	CCC (20)	



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
4,4'-DDD [2C]	1.218305E+07	4.176757	CCC (20)	
Endosulfan sulfate	1.574599E+07	4.027004	CCC (20)	
Endosulfan sulfate [2C]	1.377867E+07	2.423391	CCC (20)	
4,4'-DDT	1.63329E+07	1.880031	CCC (20)	
4,4'-DDT [2C]	1.490089E+07	2.38745	CCC (20)	
Methoxychlor	8826672	12.12139	CCC (20)	
Methoxychlor [2C]	5823606	1.078044	CCC (20)	
Endrin ketone	1.888566E+07	1.98318	CCC (20)	
Endrin ketone [2C]	1.752038E+07	2.405733	CCC (20)	
Endrin aldehyde	1.436256E+07	5.484422	CCC (20)	
Endrin aldehyde [2C]	1.504726E+07	7.127437	CCC (20)	
alpha-Chlordane	1.937443E+07	2.992774	CCC (20)	
alpha-Chlordane [2C]	1.89122E+07	3.559893	CCC (20)	
gamma-Chlordane	1.934307E+07	3.550477	CCC (20)	
gamma-Chlordane [2C]	1.967558E+07	10.62621	CCC (20)	
Toxaphene	203864.7	13.72766	CCC (20)	
Toxaphene (1)	213487.5	11.67638	CCC (20)	
Toxaphene (2)	239197.9	18.22787	CCC (20)	
Toxaphene (3)	290892.1	14.22462	CCC (20)	
Toxaphene (4)	71881.08	7.805989	CCC (20)	
Toxaphene [2C]	364638.2	5.42373	CCC (20)	
Toxaphene (1) [2C]	237756	9.716399	CCC (20)	
Toxaphene (2) [2C]	600798.6	5.038841	CCC (20)	
Toxaphene (3) [2C]	305562.6	16.55623	CCC (20)	
Toxaphene (4) [2C]	314435.4	16.16573	CCC (20)	



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Aroclor-1016	83885.82	11.82231	CCC (20)	
Aroclor-1016 (1)	48467.73	10.86868	CCC (20)	
Aroclor-1016 (2)	140187.8	12.15209	CCC (20)	
Aroclor-1016 (3)	63001.9	11.83598	CCC (20)	
Aroclor-1016 [2C]	91221.69	4.490773	CCC (20)	
Aroclor-1016 (1) [2C]	74068.57	12.96864	CCC (20)	
Aroclor-1016 (2) [2C]	135747.8	3.964606	CCC (20)	
Aroclor-1016 (3) [2C]	63848.67	9.471753	CCC (20)	
Aroclor-1260	148842.8	9.92221	CCC (20)	
Aroclor-1260 (1)	97629.6	17.81865	CCC (20)	
Aroclor-1260 (2)	142638.9	9.952057	CCC (20)	
Aroclor-1260 (3)	206259.9	6.257201	CCC (20)	
Aroclor-1260 [2C]	114030	7.602862	CCC (20)	
Aroclor-1260 (1) [2C]	118013.6	11.23782	CCC (20)	
Aroclor-1260 (2) [2C]	81761.6	7.699874	CCC (20)	
Aroclor-1260 (3) [2C]	142314.8	4.544163	CCC (20)	
Tetrachloro-m-xylene	1.763843E+07	6.895314	CCC (20)	
Tetrachloro-m-xylene [2C]	2.077731E+07	14.54672	CCC (20)	
Decachlorobiphenyl	2.630805E+07	13.99851	CCC (20)	
Decachlorobiphenyl [2C]	2.551668E+07	12.30528	CCC (20)	

\* Values outside of QC limits





## AROCOLOR INITIAL CALIBRATION (SINGLE POINT)

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 1 **Date(s) Analyzed:** 12/11/2015

**Lab Number:** S5L1105-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.02	04.97	05.07	24891
		2	05.21	05.16	05.26	17538
		3	05.32	05.27	05.37	58633
		4				
		5				
Aroclor 1254	1.000	1	07.98	07.93	08.03	23580
		2	10.35	10.30	10.40	126061
		3	11.26	11.21	11.31	115305
		4				
		5				

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 2 **Date(s) Analyzed:** 12/11/2015

**Lab Number:** S5L1105-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.57	05.52	05.62	24766
		2	05.84	05.79	05.89	14873
		3	05.96	05.91	06.01	63661
		4				
		5				
Aroclor 1254	1.000	1	09.83	09.78	09.88	65364
		2	11.09	11.04	11.14	92810
		3	12.03	11.98	12.08	116343
		4				
		5				



### AROCLOR INITIAL CALIBRATION (SINGLE POINT)

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 1                      **Date(s) Analyzed:** 12/11/2015  
**Lab Number:** S5L1105-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.32	05.27	05.37	42765
		2	06.95	06.90	07.00	61639
		3	07.14	07.09	07.19	26650
		4				
		5				

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 2                      **Date(s) Analyzed:** 12/11/2015  
**Lab Number:** S5L1105-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.97	05.92	06.02	51328
		2	07.64	07.59	07.69	64748
		3	07.89	07.84	07.94	33065
		4				
		5				



## AROCLOR INITIAL CALIBRATION (SINGLE POINT)

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 1 **Date(s) Analyzed:** 12/12/2015

**Lab Number:** S5L1105-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	06.45	06.40	06.50	36754
		2	06.95	06.90	07.00	105389
		3	08.21	08.16	08.26	43201
		4				
		5				

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

**Instrument ID:** GCECD\_GHF Col 2 **Date(s) Analyzed:** 12/12/2015

**Lab Number:** S5L1105-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	06.74	06.69	06.79	56537
		2	07.63	07.58	07.68	109060
		3	07.88	07.83	07.93	55029
		4				
		5				





## Breakdown Report

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Lab Sample ID: S5L1105-PEM1 Analyzed: 12/11/2015

---

Column Number: 1

Analyte	% Breakdown
Endrin	8.48
4.4'-DDT	1.30

---

Column Number: 2

Analyte	% Breakdown
Endrin	10.45
4.4'-DDT	0.42

---

Signal #1 : D:\G\DATA\DEC15\G1211\G14601.D\ECD1A.CH Vial: 2  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14601.D\ECD2B.CH  
 Acq On : 11 Dec 2015 8:33 Operator: JAM  
 Sample : S5L1105-PEM1 Inst : GCECD\_GH  
 Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 9:43 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81209.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

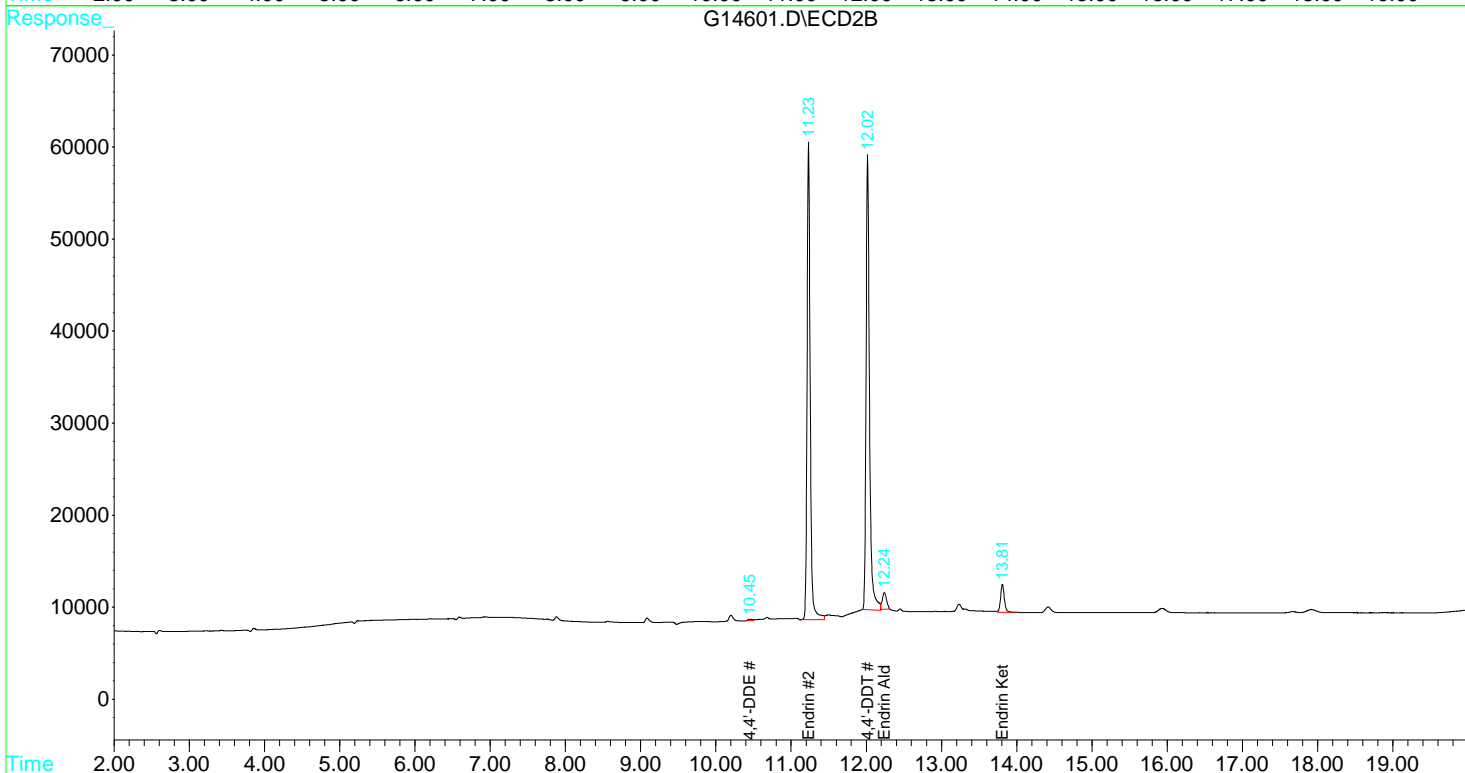
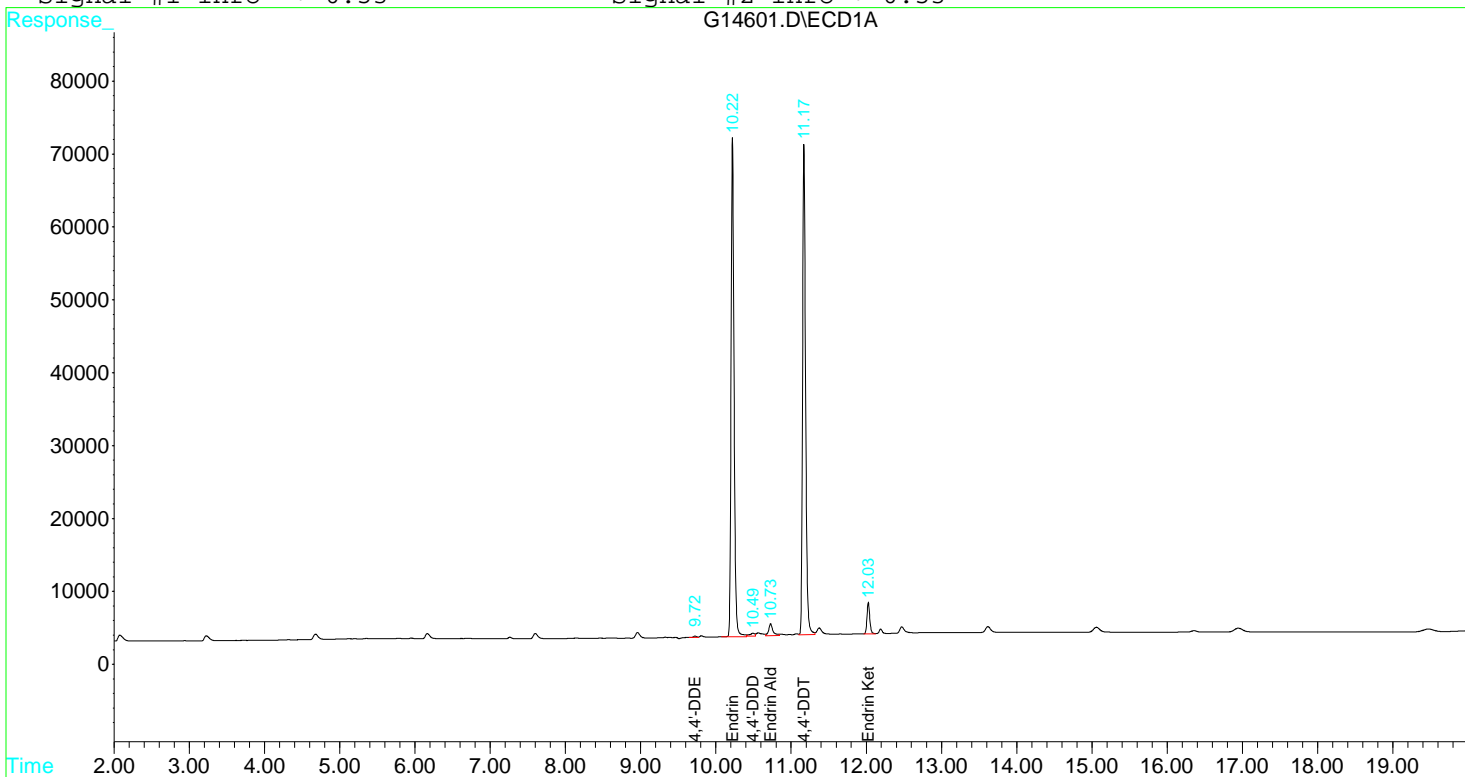
Target Compounds

12) B	4,4'-DDE	9.72	10.45	5908	6550	0.003	0.004
14) AM	Endrin	10.22	11.23	1890000	1513492	0.931	0.889
16) A	4,4'-DDD	10.49	0.00	18432	0	0.010	N.D. #
17) AM	4,4'-DDT	11.17	12.02	1853204	1568808	0.831	0.845
18) B	Endrin Aldehyde	10.73	12.24	63436	70388	0.048	0.054m
21) B	Endrin Ketone	12.03	13.81	111628	106292	0.063	0.068

Signal #1 : D:\G\DATA\DEC15\G1211\G14601.D\ECD1A.CH Vial: 2  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14601.D\ECD2B.CH  
 Acq On : 11 Dec 2015 8:33 Operator: JAM  
 Sample : S5L1105-PEM1 Inst : GCECD\_GH  
 Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 9:43 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81209.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## Breakdown Report

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Lab Sample ID: S5L2801-PEM1 Analyzed: 12/28/2015

---

Column Number: 1

Analyte	% Breakdown
Endrin	7.40
4.4'-DDT	0.51

---

Column Number: 2

Analyte	% Breakdown
Endrin	8.22
4.4'-DDT	0.62

---



Signal #1 : D:\G\DATA\DEC15\G1228\G14787.D\ECD1A.CH Vial: 2  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14787.D\ECD2B.CH  
 Acq On : 28 Dec 2015 9:08 Operator: JAM  
 Sample : S5L2801-PEM1 Inst : GCECD\_GH  
 Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

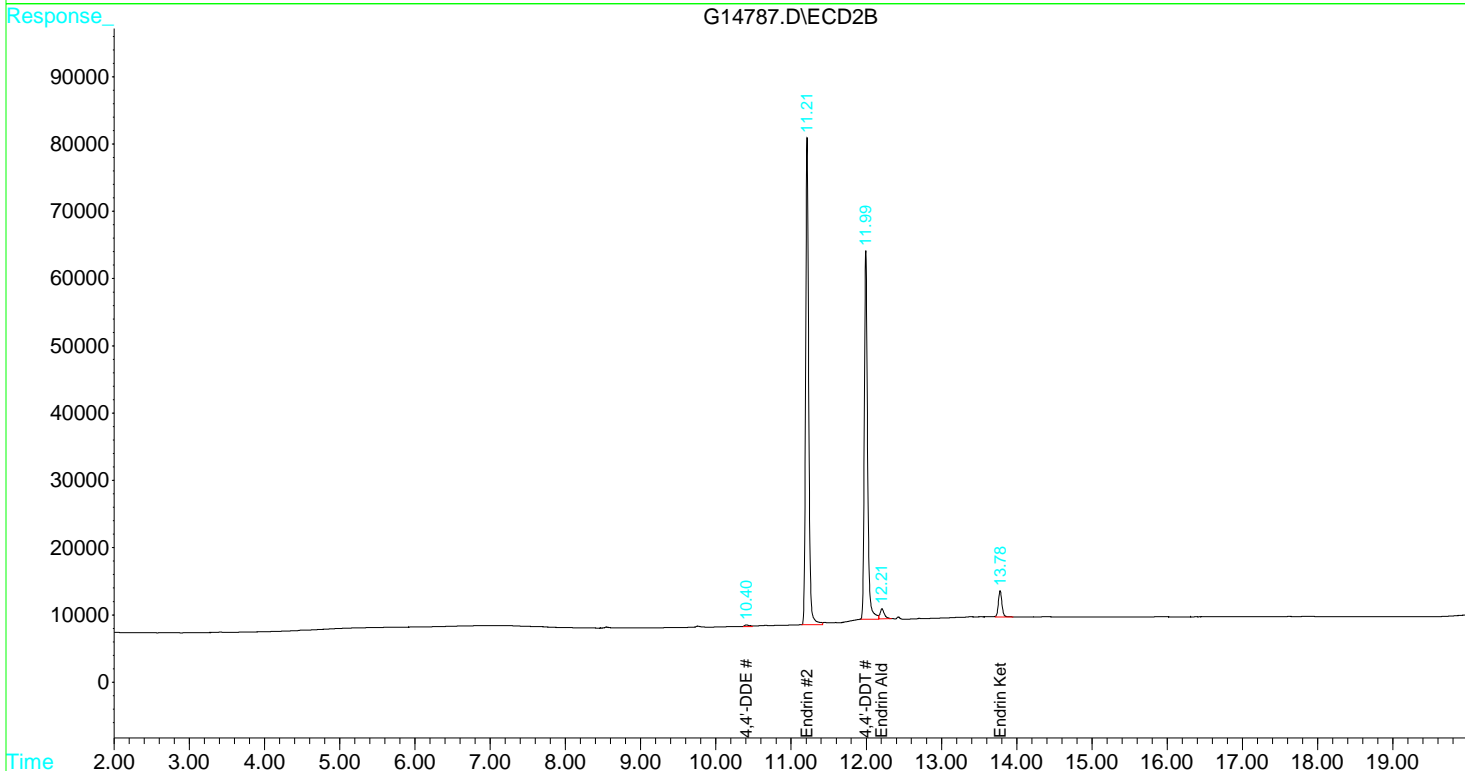
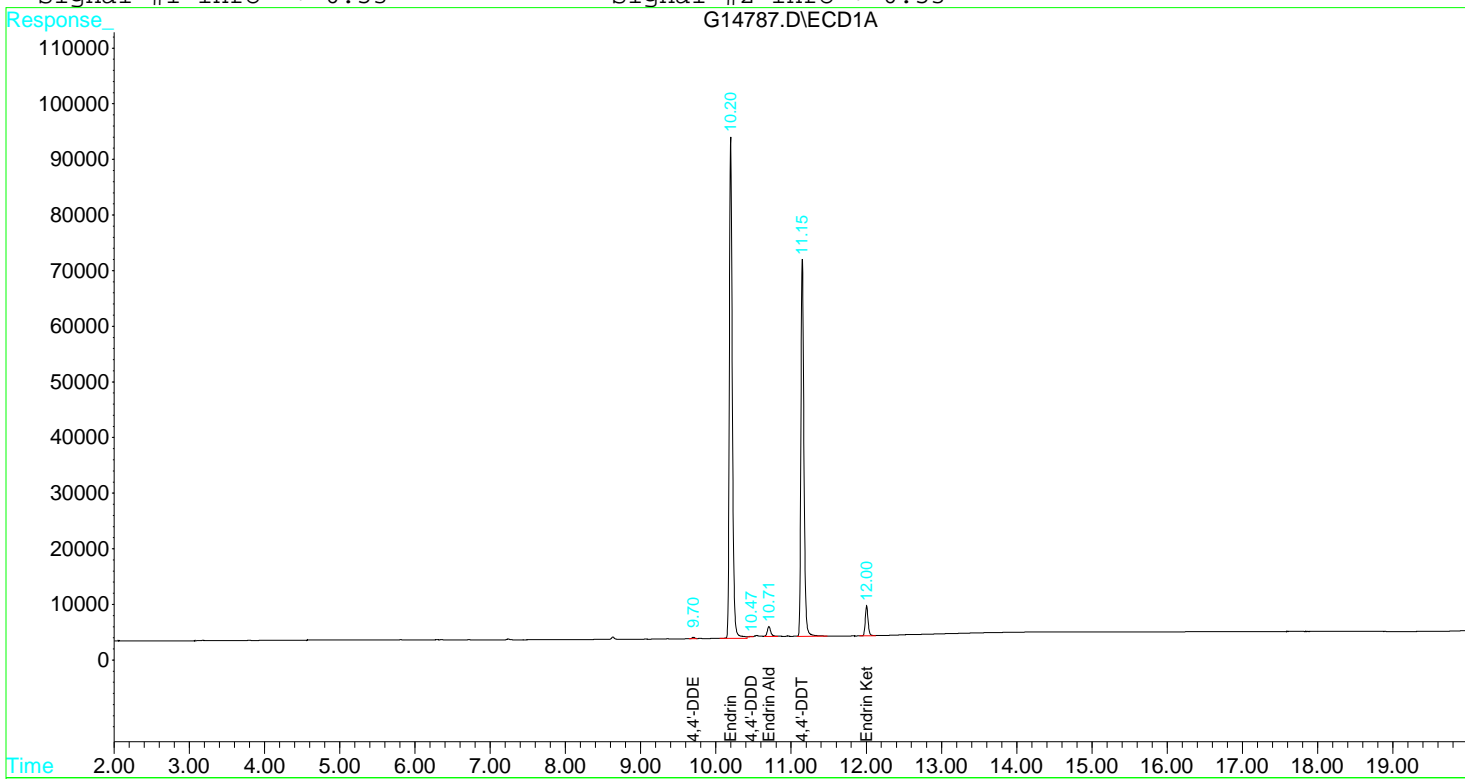
Target Compounds

12) B	4,4'-DDE	9.70	10.40	7216	10102	0.004	0.006 #
14) AM	Endrin	10.20	11.21	2474508	2054114	1.643	1.671
16) A	4,4'-DDD	10.47	0.00	2406	0	0.002	N.D. #
17) AM	4,4'-DDT	11.15	11.99	1862274	1623362	1.140	1.089
18) B	Endrin Aldehyde	10.71	12.21	54488	57538	0.038	0.038
21) B	Endrin Ketone	12.00	13.78f	143284	126470	0.076	0.072

Signal #1 : D:\G\DATA\DEC15\G1228\G14787.D\ECD1A.CH Vial: 2  
Signal #2 : D:\G\DATA\DEC15\G1228\G14787.D\ECD2B.CH  
Acq On : 28 Dec 2015 9:08 Operator: JAM  
Sample : S5L2801-PEM1 Inst : GCECD\_GH  
Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 28 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:38:58 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53





## CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GCECD_GHF	Calibration: 15L1702
Lab File ID: G14788.D	Calibration Date: 12/11/15 15:21
Sequence: S5L2801	Injection Date: 12/28/15
Lab Sample ID: S5L2801-CCV1	Injection Time: 09:37

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV
alpha-BHC	A	0.0200	0.0217	2.110144E+07	2.28624E+07	8.3	20
alpha-BHC [2C]	A	0.0200	0.0210	2.360784E+07	2.4748E+07	4.8	20
gamma-BHC [Lindane]	A	0.0200	0.0217	2.066444E+07	2.23817E+07	8.3	20
gamma-BHC [Lindane] [2C]	A	0.0200	0.0219	2.327942E+07	2.54995E+07	9.5	20
Heptachlor	A	0.0200	0.0214	2.165387E+07	2.31449E+07	6.9	20
Heptachlor [2C]	A	0.0200	0.0230	1.676953E+07	1.9289E+07	15.0	20
Endosulfan I	A	0.0200	0.0207	1.871024E+07	1.93581E+07	3.5	20
Endosulfan I [2C]	A	0.0200	0.0215	1.745338E+07	1.87364E+07	7.4	20
Dieldrin	A	0.0400	0.0436	1.861059E+07	2.02691E+07	8.9	20
Dieldrin [2C]	A	0.0400	0.0424	1.711114E+07	1.81505E+07	6.1	20
Endrin	A	0.0400	0.0429	1.505639E+07	1.61652E+07	7.4	20
Endrin [2C]	A	0.0400	0.0447	1.229052E+07	1.37445E+07	11.8	20
4,4'-DDD	A	0.0400	0.0425	1.362116E+07	1.445645E+07	6.1	20
4,4'-DDD [2C]	A	0.0400	0.0429	1.218305E+07	1.306695E+07	7.3	20
4,4'-DDT	A	0.0400	0.0411	1.63329E+07	1.678575E+07	2.8	20
4,4'-DDT [2C]	A	0.0400	0.0408	1.490089E+07	1.520545E+07	2.0	20
Methoxychlor	A	0.200	0.196	8826672	8636120	-2.2	20
Methoxychlor [2C]	A	0.200	0.225	5823606	6545630	12.4	20
Tetrachloro-m-xylene	A	0.0200	0.0214	1.763843E+07	1.88396E+07	6.8	20
Tetrachloro-m-xylene [2C]	A	0.0200	0.0193	2.077731E+07	2.0069E+07	-3.4	20
Decachlorobiphenyl	A	0.0400	0.0411	2.630805E+07	2.703955E+07	2.8	20
Decachlorobiphenyl [2C]	A	0.0400	0.0389	2.551668E+07	2.48016E+07	-2.8	20

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14788.D\ECD1A.CH Vial: 3  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14788.D\ECD2B.CH  
 Acq On : 28 Dec 2015 9:37 Operator: JAM  
 Sample : S5L2801-CCV1 Inst : GCECD\_GH  
 Misc : MIX A 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 10:05 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.62	4.92	376792	401380	0.214	0.193m
Spiked Amount	1.000	Range	30 - 150	Recovery	=	21.40%# 19.30%#
2) AS Decachlorobiphen	16.31	17.62f	1081582	992064	0.411	0.389
Spiked Amount	1.000	Range	30 - 150	Recovery	=	41.10% 38.90%

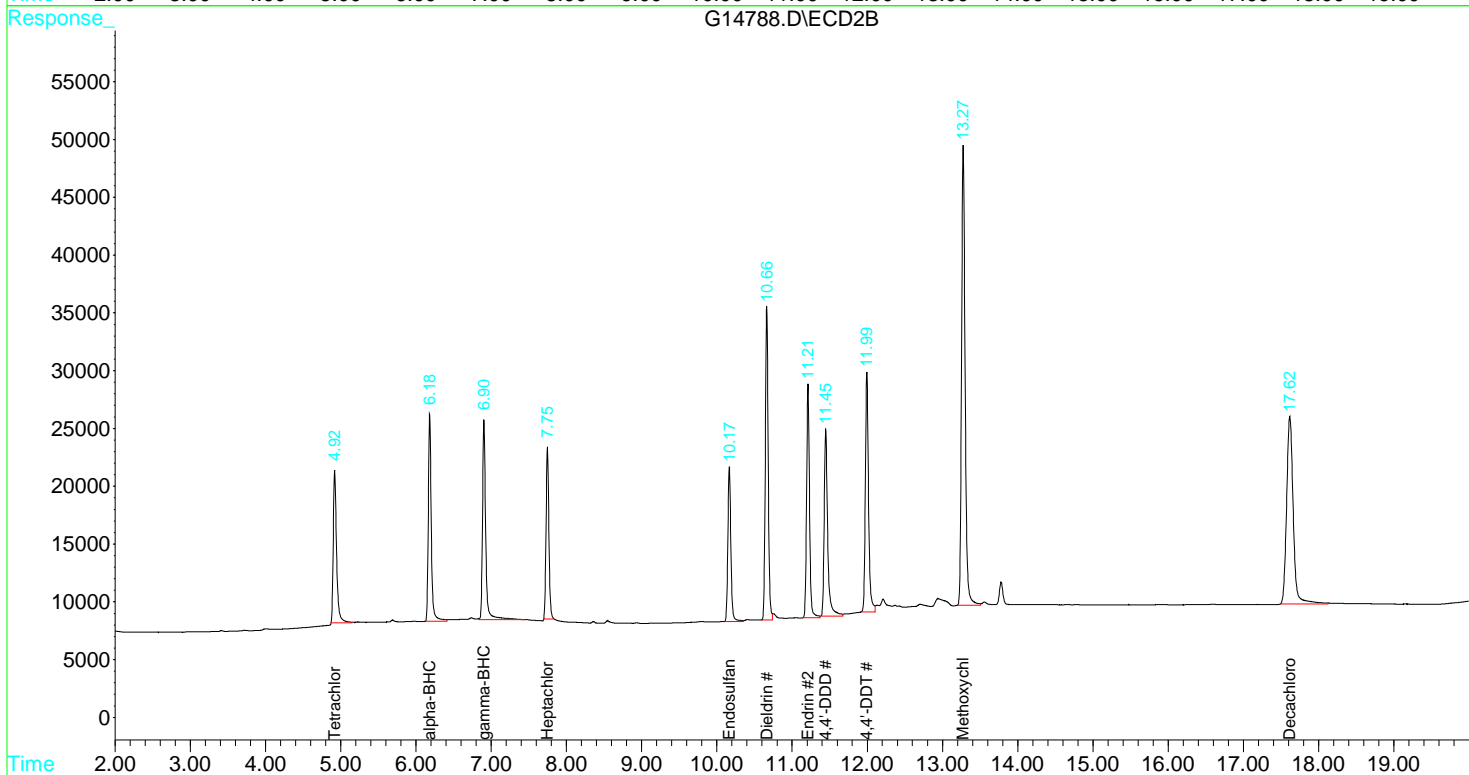
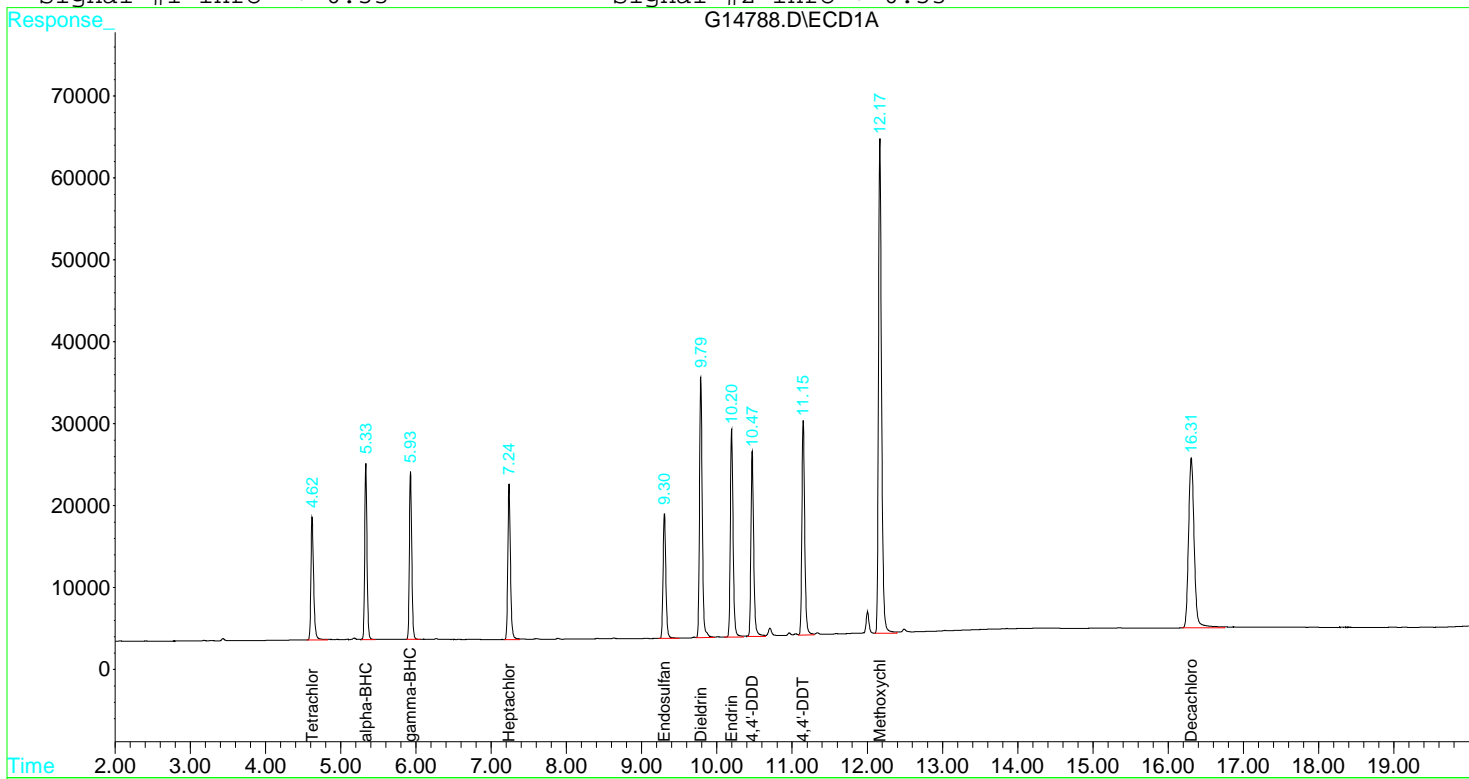
Target Compounds

2) A alpha-BHC	5.33	6.18	457248	494960	0.217	0.210
3) AM gamma-BHC (Linda	5.93	6.90	447634	509990	0.217	0.219
4) AM Heptachlor	7.24	7.75	462898	385780	0.214	0.230m
9) A Endosulfan I	9.30	10.17	387162	374728	0.207	0.215
13) AM Dieldrin	9.79	10.66	810764	726020	0.436	0.424
14) AM Endrin	10.20	11.21	646608	549780	0.429	0.447
16) A 4,4'-DDD	10.47	11.45	578258	522678	0.425	0.429
17) AM 4,4'-DDT	11.15	11.99	671430	608218	0.411	0.408
20) A Methoxychlor	12.17	13.27	1727224	1309126	1.957	2.248

Signal #1 : D:\G\DATA\DEC15\G1228\G14788.D\ECD1A.CH Vial: 3  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14788.D\ECD2B.CH  
 Acq On : 28 Dec 2015 9:37 Operator: JAM  
 Sample : S5L2801-CCV1 Inst : GCECD\_GH  
 Misc : MIX A 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 10:05 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53





## CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GCECD_GHF	Calibration: 15L1702
Lab File ID: G14789.D	Calibration Date: 12/11/15 15:21
Sequence: S5L2801	Injection Date: 12/28/15
Lab Sample ID: S5L2801-CCV2	Injection Time: 10:06

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV
beta-BHC	A	0.0200	0.0210	1.109409E+07	1.16528E+07	5.0	20
beta-BHC [2C]	A	0.0200	0.0225	1.192292E+07	1.34426E+07	12.7	20
delta-BHC	A	0.0200	0.0212	1.83164E+07	1.9431E+07	6.1	20
delta-BHC [2C]	A	0.0200	0.0216	1.825937E+07	1.97615E+07	8.2	20
Aldrin	A	0.0200	0.0208	1.921726E+07	1.99435E+07	3.8	20
Aldrin [2C]	A	0.0200	0.0205	1.981338E+07	2.02881E+07	2.4	20
Heptachlor Epoxide	A	0.0200	0.0197	1.95521E+07	1.92664E+07	-1.5	20
Heptachlor Epoxide [2C]	A	0.0200	0.0206	1.822586E+07	1.87633E+07	2.9	20
4,4'-DDE	A	0.0400	0.0419	1.77821E+07	1.86182E+07	4.7	20
4,4'-DDE [2C]	A	0.0400	0.0418	1.764388E+07	1.84541E+07	4.6	20
Endosulfan II	A	0.0400	0.0416	1.634623E+07	1.69894E+07	3.9	20
Endosulfan II [2C]	A	0.0400	0.0413	1.508075E+07	1.55894E+07	3.4	20
Endosulfan sulfate	A	0.0400	0.0423	1.574599E+07	1.66659E+07	5.8	20
Endosulfan sulfate [2C]	A	0.0400	0.0415	1.377867E+07	1.429925E+07	3.8	20
Endrin ketone	A	0.0400	0.0417	1.888566E+07	1.969215E+07	4.3	20
Endrin ketone [2C]	A	0.0400	0.0401	1.752038E+07	1.756215E+07	0.2	20
Endrin aldehyde	A	0.0400	0.0416	1.436256E+07	1.494275E+07	4.0	20
Endrin aldehyde [2C]	A	0.0400	0.0364	1.504726E+07	1.369885E+07	-9.0	20
alpha-Chlordane	A	0.0200	0.0205	1.937443E+07	1.98716E+07	2.6	20
alpha-Chlordane [2C]	A	0.0200	0.0205	1.89122E+07	1.94115E+07	2.6	20
gamma-Chlordane	A	0.0200	0.0206	1.934307E+07	1.99011E+07	2.9	20
gamma-Chlordane [2C]	A	0.0200	0.0197	1.967558E+07	1.94065E+07	-1.4	20

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14789.D\ECD1A.CH Vial: 4  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14789.D\ECD2B.CH  
 Acq On : 28 Dec 2015 10:06 Operator: JAM  
 Sample : S5L2801-CCV2 Inst : GCECD\_GH  
 Misc : MIX B 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 10:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

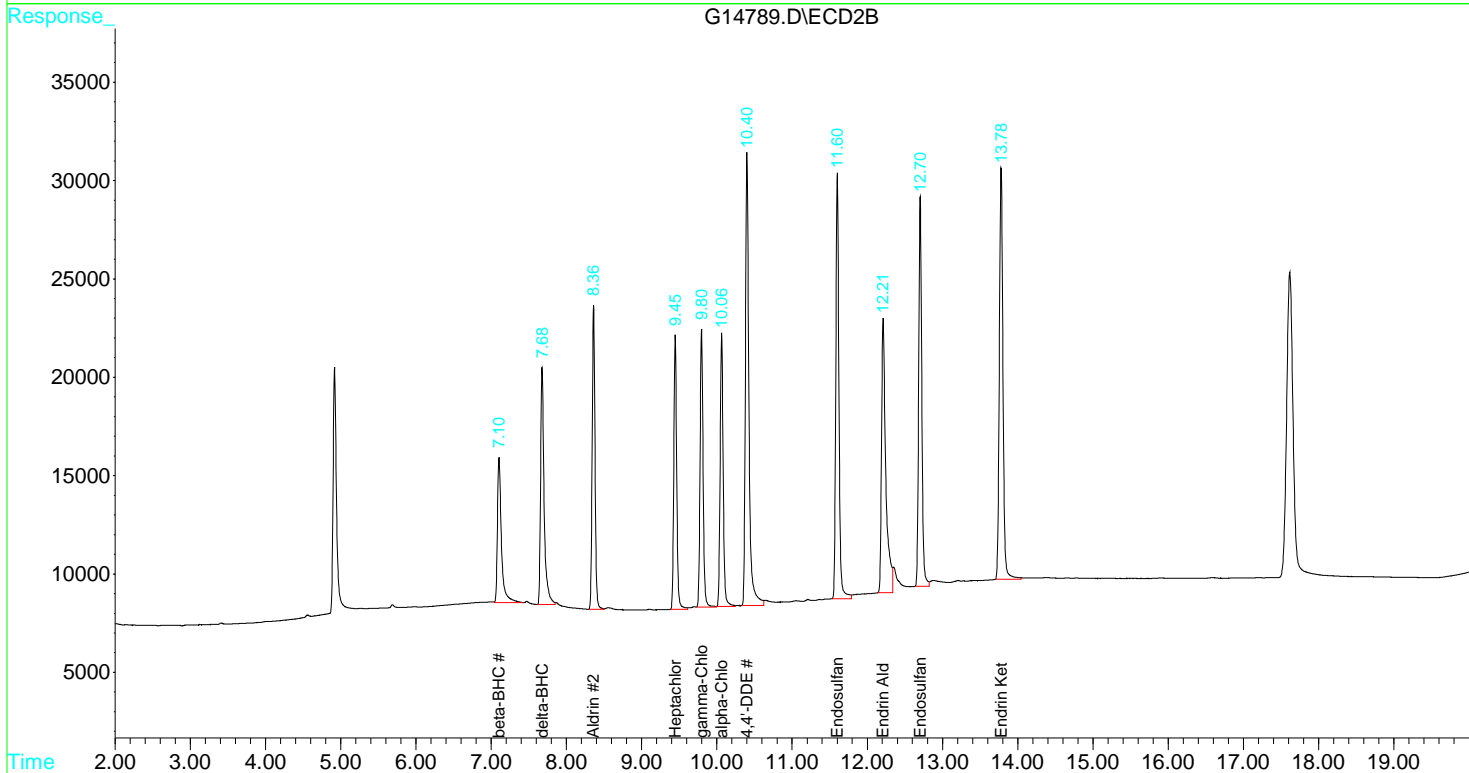
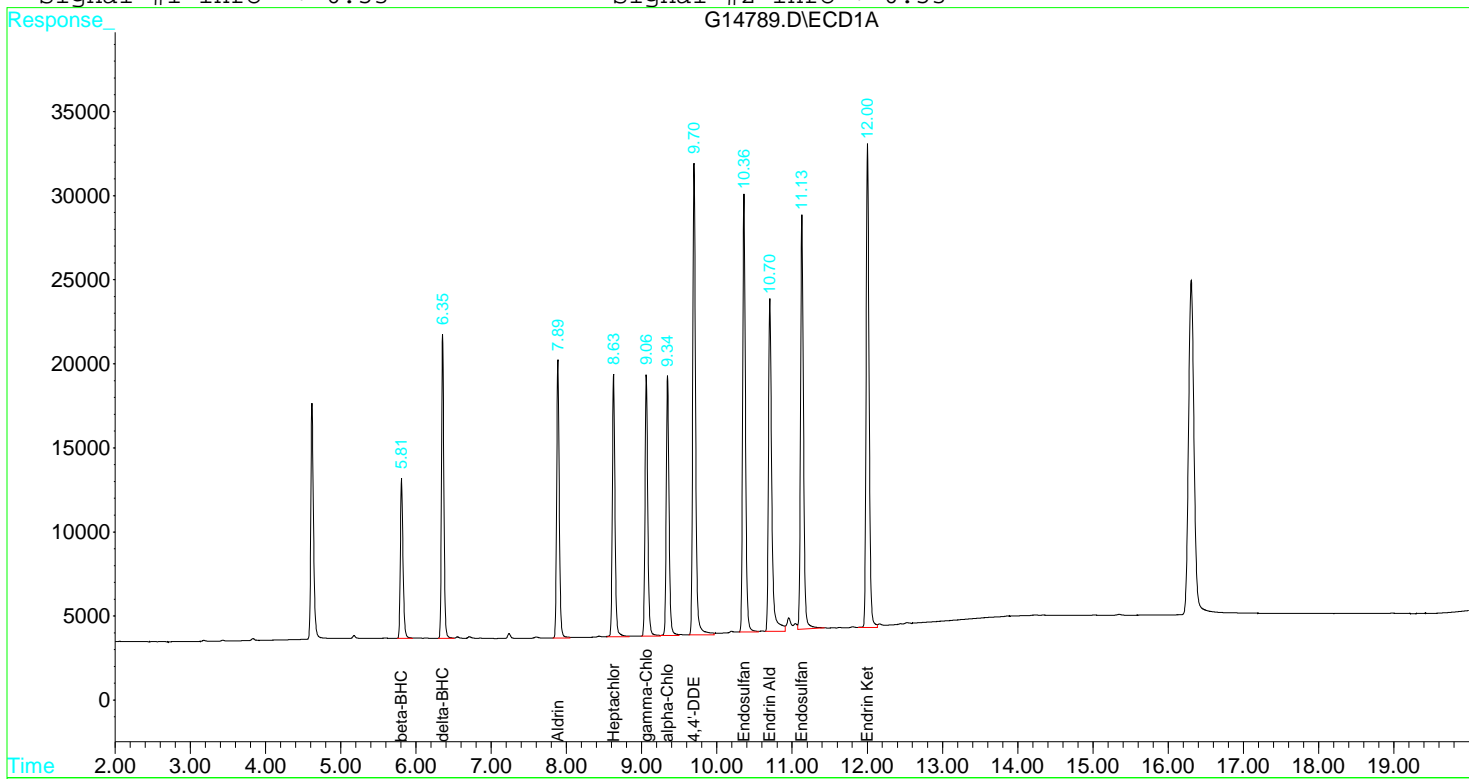
Target Compounds

5) BM Aldrin	7.89	8.36	398870	405762	0.208	0.205
6) B beta-BHC	5.81	7.10	233056	268852	0.210	0.225
7) B delta-BHC	6.35	7.68	388620	395230	0.212	0.216
8) B Heptachlor Epoxi	8.63	9.45	385328	375266	0.197	0.206
10) B gamma-Chlordane	9.06	9.80	398022	388130	0.206	0.197
11) B alpha-Chlordane	9.34	10.06	397432	388230	0.205	0.205
12) B 4,4'-DDE	9.70	10.40	744728	738164	0.419	0.418
15) B Endosulfan II	10.36f	11.60	679576	623576	0.416	0.413
18) B Endrin Aldehyde	10.70f	12.21	597710	547954	0.416	0.364
19) B Endosulfan Sulfa	11.13	12.70	666636	571970	0.423	0.415
21) B Endrin Ketone	12.00f	13.78f	787686	702486	0.417	0.401

Signal #1 : D:\G\DATA\DEC15\G1228\G14789.D\ECD1A.CH Vial: 4  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14789.D\ECD2B.CH  
 Acq On : 28 Dec 2015 10:06 Operator: JAM  
 Sample : S5L2801-CCV2 Inst : GCECD\_GH  
 Misc : MIX B 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 10:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53







## CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GCECD_GHF	Calibration: 15L1702
Lab File ID: G14790.D	Calibration Date: 12/11/15 15:21
Sequence: S5L2801	Injection Date: 12/28/15
Lab Sample ID: S5L2801-CCV3	Injection Time: 11:19

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV
Toxaphene	A	2.50	2.38	203864.7	193122.6	-5.3	20
Toxaphene (1)	A	2.50	2.31	213487.5	197528	-7.5	20
Toxaphene (2)	A	2.50	2.33	239197.9	223147.2	-6.7	20
Toxaphene (3)	A	2.50	2.41	290892.1	280364.8	-3.6	20
Toxaphene (4)	A	2.50	2.48	71881.08	71450.4	-0.6	20
Toxaphene [2C]	A	2.50	2.48	364638.2	363247.8	-0.4	20
Toxaphene (1) [2C]	A	2.50	2.45	237756	232834.4	-2.1	20
Toxaphene (2) [2C]	A	2.50	2.54	600798.6	611260.8	1.7	20
Toxaphene (3) [2C]	A	2.50	2.38	305562.6	291504	-4.6	20
Toxaphene (4) [2C]	A	2.50	2.52	314435.4	317392	0.9	20

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14790.D\ECD1A.CH Vial: 5  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14790.D\ECD2B.CH  
 Acq On : 28 Dec 2015 11:19 Operator: JAM  
 Sample : S5L2801-CCV3 Inst : GCECD\_GH  
 Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 11:47 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:38:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

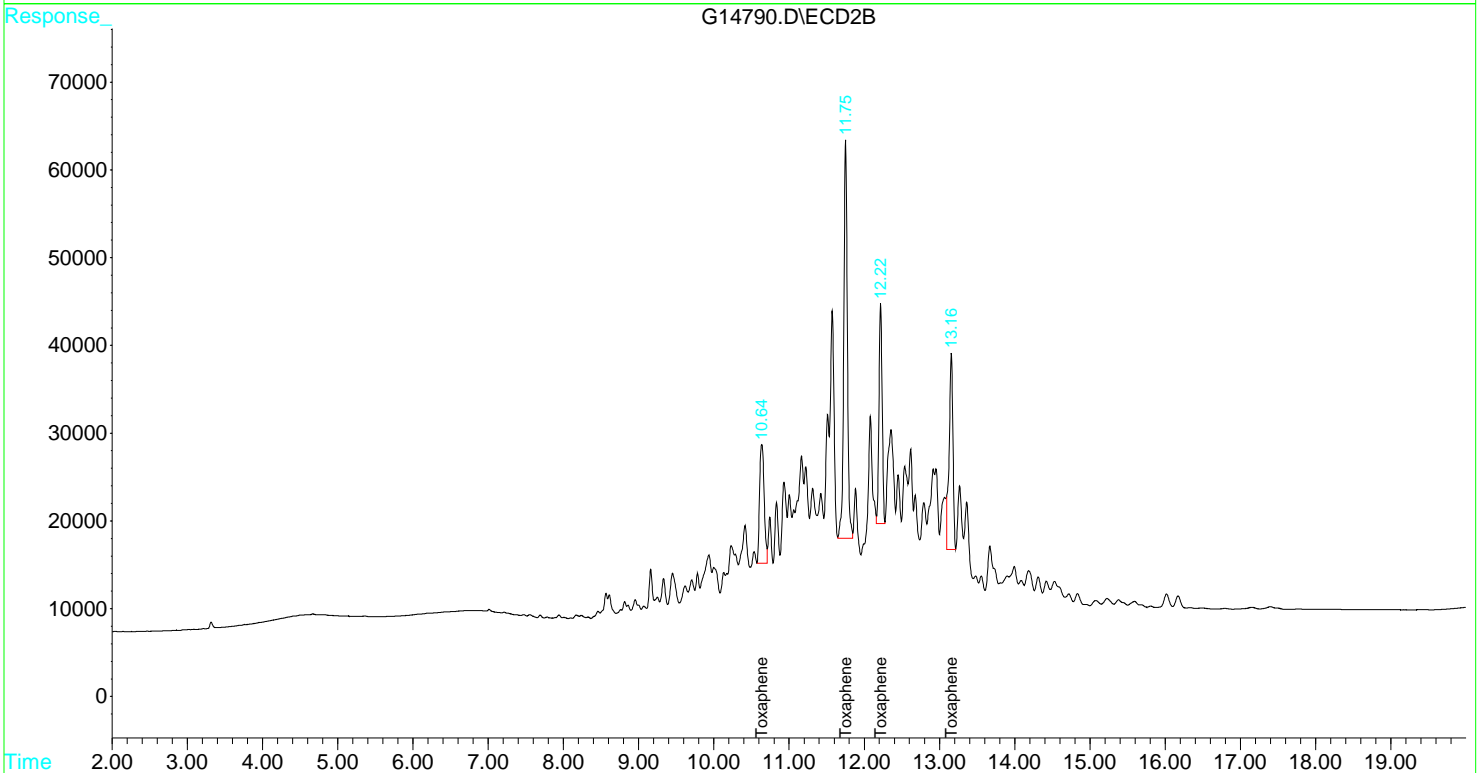
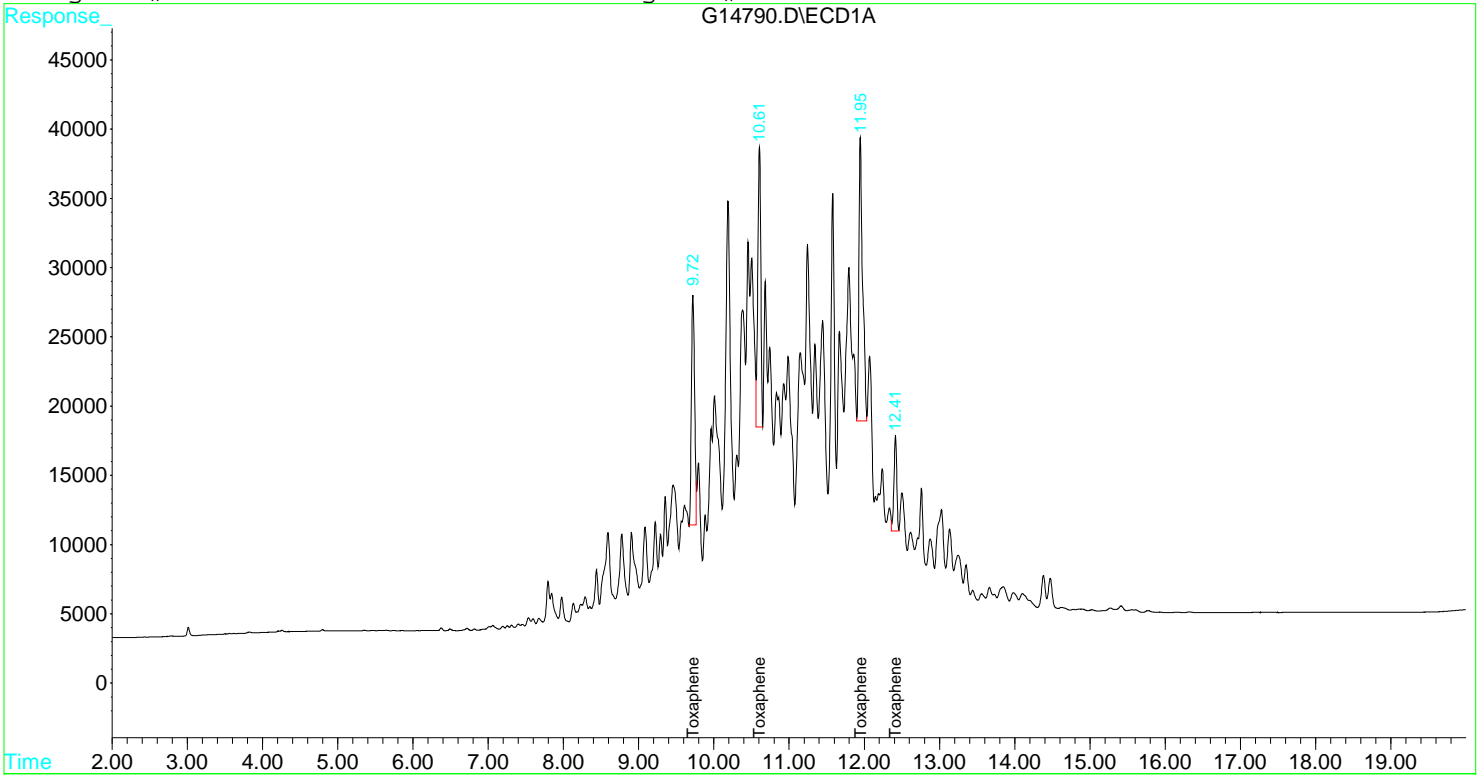
Target Compounds

23)	Toxaphene {1}	9.72	10.64	493820	582086	23.131m	24.482
24)	Toxaphene {2}	10.61	11.75	557868	1528152	23.322m	25.435m
25)	Toxaphene {3}	11.95	12.22	700912	728760	24.095m	23.850m
26)	Toxaphene {4}	12.41	13.16	178626	793480	24.850m	25.235m

Signal #1 : D:\G\DATA\DEC15\G1228\G14790.D\ECD1A.CH Vial: 5  
Signal #2 : D:\G\DATA\DEC15\G1228\G14790.D\ECD2B.CH  
Acq On : 28 Dec 2015 11:19 Operator: JAM  
Sample : S5L2801-CCV3 Inst : GCECD\_GH  
Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 28 11:47 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:38:58 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53





## CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GCECD_GHF	Calibration: 15L1702
Lab File ID: G14791.D	Calibration Date: 12/11/15 15:21
Sequence: S5L2801	Injection Date: 12/28/15
Lab Sample ID: S5L2801-CCV4	Injection Time: 11:49

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV
Aroclor-1016	A	1.00	1.01	83885.82	84571.33	0.8	20
Aroclor-1016 (1)	A	1.00	1.02	48467.73	49372	1.9	20
Aroclor-1016 (2)	A	1.00	1.01	140187.8	141045	0.6	20
Aroclor-1016 (3)	A	1.00	1.00	63001.9	63297	0.5	20
Aroclor-1016 [2C]	A	1.00	1.08	91221.69	99344.67	8.9	20
Aroclor-1016 (1) [2C]	A	1.00	1.05	74068.57	77557	4.7	20
Aroclor-1016 (2) [2C]	A	1.00	1.12	135747.8	152617	12.4	20
Aroclor-1016 (3) [2C]	A	1.00	1.06	63848.67	67860	6.3	20
Aroclor-1260	A	1.00	1.02	148842.8	153227.3	2.9	20
Aroclor-1260 (1)	A	1.00	0.975	97629.6	95191	-2.5	20
Aroclor-1260 (2)	A	1.00	1.03	142638.9	147127	3.1	20
Aroclor-1260 (3)	A	1.00	1.05	206259.9	217364	5.4	20
Aroclor-1260 [2C]	A	1.00	1.10	114030	125446.3	10.0	20
Aroclor-1260 (1) [2C]	A	1.00	1.12	118013.6	131833	11.7	20
Aroclor-1260 (2) [2C]	A	1.00	1.11	81761.6	90952	11.2	20
Aroclor-1260 (3) [2C]	A	1.00	1.08	142314.8	153554	7.9	20

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Signal #1 : D:\G\DATA\DEC15\G1228\G14791.D\ECD1A.CH Vial: 6  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14791.D\ECD2B.CH  
 Acq On : 28 Dec 2015 11:49 Operator: JAM  
 Sample : S5L2801-CCV4 Inst : GCECD\_GH  
 Misc : A1016/1260 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 12:31 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS TCMX	4.62	4.92	42902	42501	0.226	0.187m
Spiked Amount	1.000		Recovery	=	22.60%	18.70%
29) AS DCB	16.31f	17.62f	58750	55402	0.198m	0.194m
Spiked Amount	1.000		Recovery	=	19.80%	19.40%

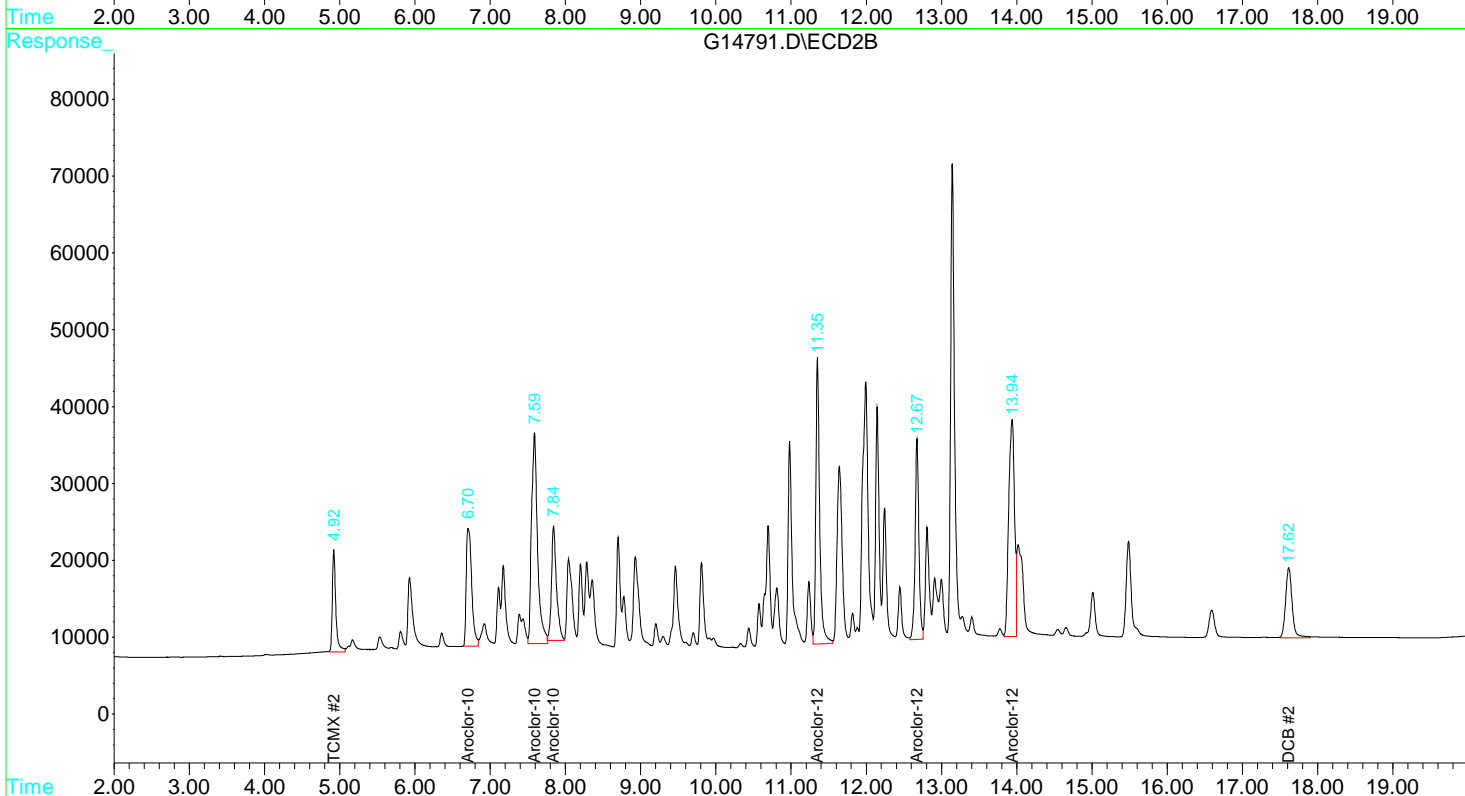
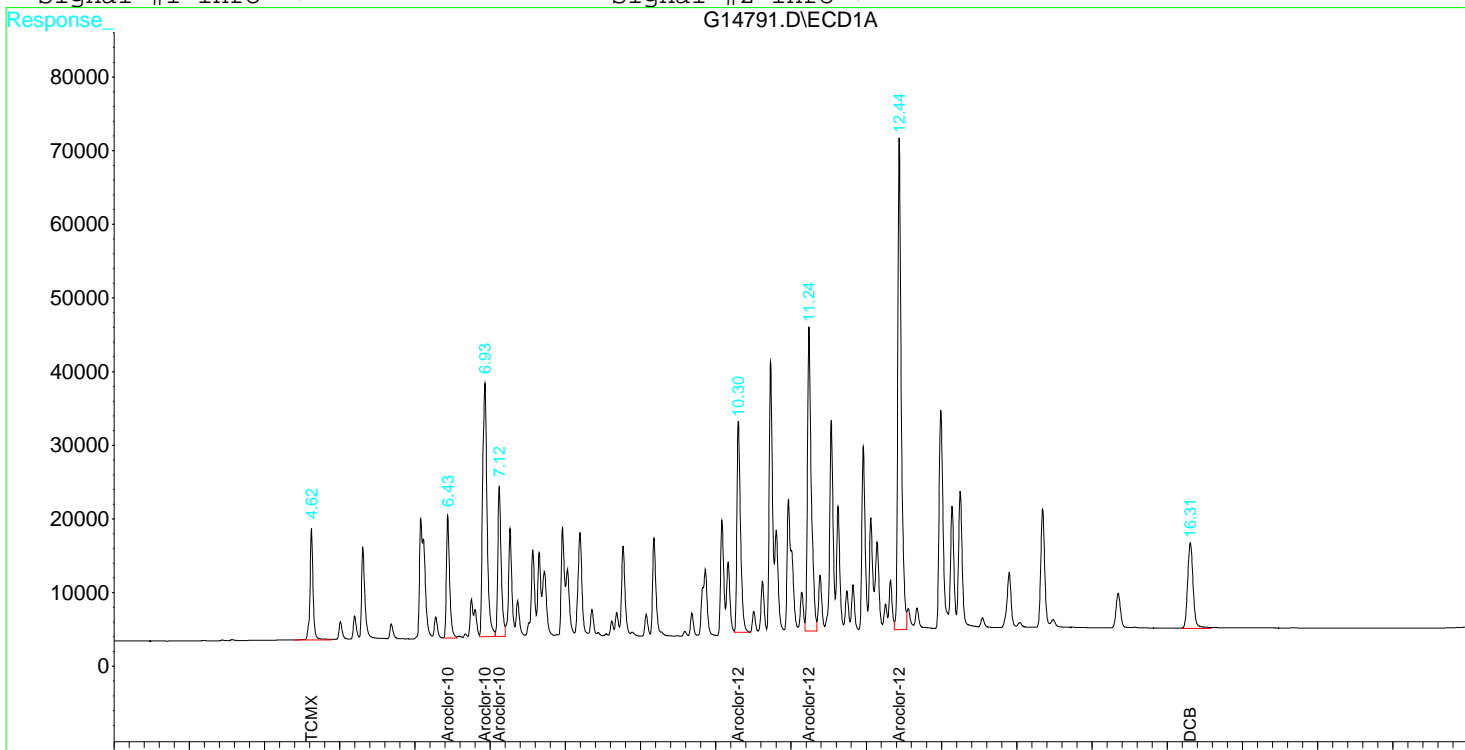
Target Compounds

2) L1 Aroclor-1016	6.43f	6.70f	49372	77557	10.187	10.471
3) L1 Aroclor-1016 {2}	6.93f	7.59f	141045	152617	10.061	11.243m
4) L1 Aroclor-1016 {3}	7.12f	7.84f	63297	67860	10.047	10.628m
20) L7 Aroclor-1260	10.30f	11.35f	95191	131833	9.750	11.171
21) L7 Aroclor-1260 {2}	11.24f	12.67f	147127	90952	10.315	11.124
22) L7 Aroclor-1260 {3}	12.44f	13.94f	217364	153554	10.538	10.790m

Signal #1 : D:\G\DATA\DEC15\G1228\G14791.D\ECD1A.CH Vial: 6  
 Signal #2 : D:\G\DATA\DEC15\G1228\G14791.D\ECD2B.CH  
 Acq On : 28 Dec 2015 11:49 Operator: JAM  
 Sample : S5L2801-CCV4 Inst : GCECD\_GH  
 Misc : A1016/1260 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 28 12:31 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 10:09:57 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :





## CALIBRATION VERIFICATION SUMMARY

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check                      Init. Calib. Date(s):                      12/11/2015  
 Lab Sample ID (Calib): S5L2801-CCV1(1)                      Date Analyzed:                      12/28/2015 0937

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	05.33	05.28	05.38	21101440	22862400	8.3
gamma-BHC [Lindane]	05.93	05.88	05.98	20664440	22381700	8.3
Heptachlor	07.24	07.19	07.29	21653870	23144900	6.9
Endosulfan I	09.30	09.25	09.35	18710240	19358100	3.5
Dieldrin	09.79	09.74	09.84	18610590	20269100	8.9
Endrin	10.20	10.15	10.25	15056390	16165200	7.4
4,4'-DDD	10.47	10.42	10.52	13621160	14456450	6.1
4,4'-DDT	11.15	11.10	11.20	16332900	16785750	2.8
Methoxychlor	12.17	12.12	12.22	8826672	8636120	-2.2
Tetrachloro-m-xylene	04.62	04.57	04.67	17638430	18839600	6.8
Decachlorobiphenyl	16.31	16.26	16.36	26308050	27039550	2.8

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check                      Init. Calib. Date(s):                      12/11/2015  
 Lab Sample ID (Calib): S5L2801-CCV1(2)                      Date Analyzed:                      12/28/2015 0937

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	06.18	06.13	06.23	23607840	24748000	4.8
gamma-BHC [Lindane]	06.90	06.85	06.95	23279420	25499500	9.5
Heptachlor	07.75	07.70	07.80	16769530	19289000	15.0
Endosulfan I	10.17	10.12	10.22	17453380	18736400	7.4
Dieldrin	10.66	10.61	10.71	17111140	18150500	6.1
Endrin	11.21	11.16	11.26	12290520	13744500	11.8
4,4'-DDD	11.45	11.40	11.50	12183050	13066950	7.3
4,4'-DDT	11.99	11.94	12.04	14900890	15205450	2.0
Methoxychlor	13.27	13.22	13.32	5823606	6545630	12.4
Tetrachloro-m-xylene	04.92	04.87	04.97	20777310	20069000	-3.4
Decachlorobiphenyl	17.62	17.57	17.67	25516680	24801600	-2.8



## CALIBRATION VERIFICATION SUMMARY

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check S5L2801-CCV2(1) Init. Calib. Date(s): 12/11/2015  
 Lab Sample ID (Calib): Date Analyzed: 12/28/2015 1006

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	05.81	05.76	05.86	11094090	11652800	5.0
delta-BHC	06.35	06.30	06.40	18316400	19431000	6.1
Aldrin	07.89	07.84	07.94	19217260	19943500	3.8
Heptachlor Epoxide	08.63	08.58	08.68	19552100	19266400	-1.5
4,4'-DDE	09.70	09.65	09.75	17782100	18618200	4.7
Endosulfan II	10.36	10.31	10.41	16346230	16989400	3.9
Endosulfan sulfate	11.13	11.08	11.18	15745990	16665900	5.8
Endrin ketone	12.00	11.95	12.05	18885660	19692150	4.3
Endrin aldehyde	10.70	10.65	10.75	14362560	14942750	4.0
alpha-Chlordane	09.34	09.29	09.39	19374430	19871600	2.6
gamma-Chlordane	09.06	09.01	09.11	19343070	19901100	2.9

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check S5L2801-CCV2(2) Init. Calib. Date(s): 12/11/2015  
 Lab Sample ID (Calib): Date Analyzed: 12/28/2015 1006

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	07.10	07.05	07.15	11922920	13442600	12.7
delta-BHC	07.68	07.63	07.73	18259370	19761500	8.2
Aldrin	08.36	08.31	08.41	19813380	20288100	2.4
Heptachlor Epoxide	09.45	09.40	09.50	18225860	18763300	2.9
4,4'-DDE	10.40	10.35	10.45	17643880	18454100	4.6
Endosulfan II	11.60	11.55	11.65	15080750	15589400	3.4
Endosulfan sulfate	12.70	12.65	12.75	13778670	14299250	3.8
Endrin ketone	13.78	13.73	13.83	17520380	17562150	0.2
Endrin aldehyde	12.21	12.16	12.26	15047260	13698850	-9.0
alpha-Chlordane	10.06	10.01	10.11	18912200	19411500	2.6
gamma-Chlordane	09.80	09.75	09.85	19675580	19406500	-1.4





## CALIBRATION VERIFICATION SUMMARY

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check S5L2801-CCV3(1) Init. Calib. Date(s): 12/11/2015  
 Lab Sample ID (Calib): Date Analyzed: 12/28/2015 1119

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	12.41	12.36	12.46	203865	193123	-5.3
Toxaphene (1)	09.72	09.67	09.77	213488	197528	-7.5
Toxaphene (2)	10.61	10.56	10.66	239198	223147	-6.7
Toxaphene (3)	11.95	11.90	12.00	290892	280365	-3.6
Toxaphene (4)	12.41	12.36	12.46	71881	71450	-0.6

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Client Sample No. (Calib##): Calibration Check S5L2801-CCV3(2) Init. Calib. Date(s): 12/11/2015  
 Lab Sample ID (Calib): Date Analyzed: 12/28/2015 1119

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	13.16	13.11	13.21	364638	363248	-0.4
Toxaphene (1)	10.64	10.59	10.69	237756	232834	-2.1
Toxaphene (2)	11.75	11.70	11.80	600799	611261	1.7
Toxaphene (3)	12.22	12.17	12.27	305563	291504	-4.6
Toxaphene (4)	13.16	13.11	13.21	314435	317392	0.9



# PEST/PCB

## RAW DATA

Signal #1 : D:\G\DATA\DEC15\G1211\G14602.D\ECD1A.CH Vial: 3  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14602.D\ECD2B.CH  
 Acq On : 11 Dec 2015 9:47 Operator: JAM  
 Sample : S5L1105-CAL1 Inst : GCECD\_GH  
 Misc : MIX A 0.08 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 12:40 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.66	4.94	1294126	1342602	0.549	0.514
Spiked Amount	1.000	Range	30 - 150	Recovery	= 54.90%	51.40%
22) AS Decachlorobiphen	16.37	17.67	3559856	3568056	0.979	1.102
Spiked Amount	1.000	Range	30 - 150	Recovery	= 97.90%	110.20%

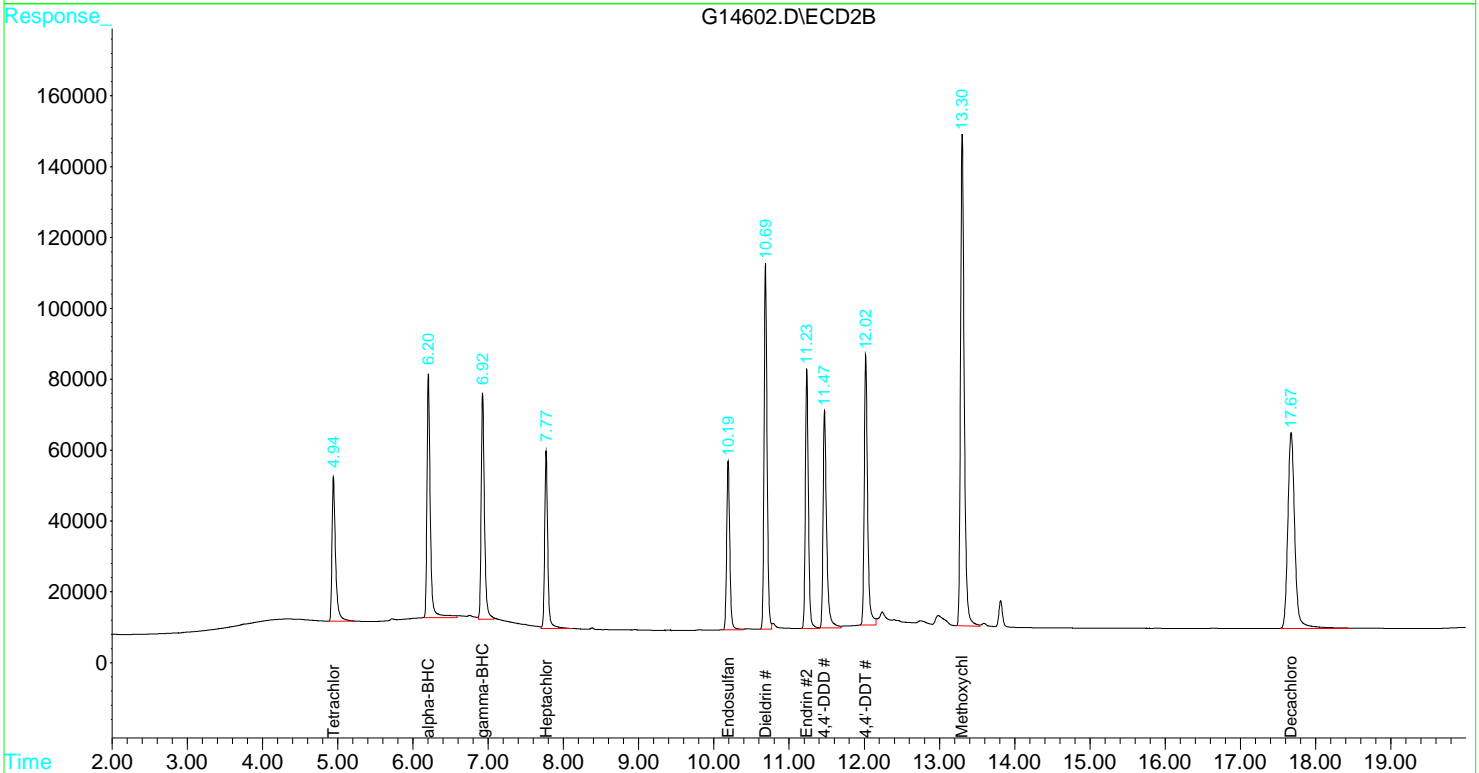
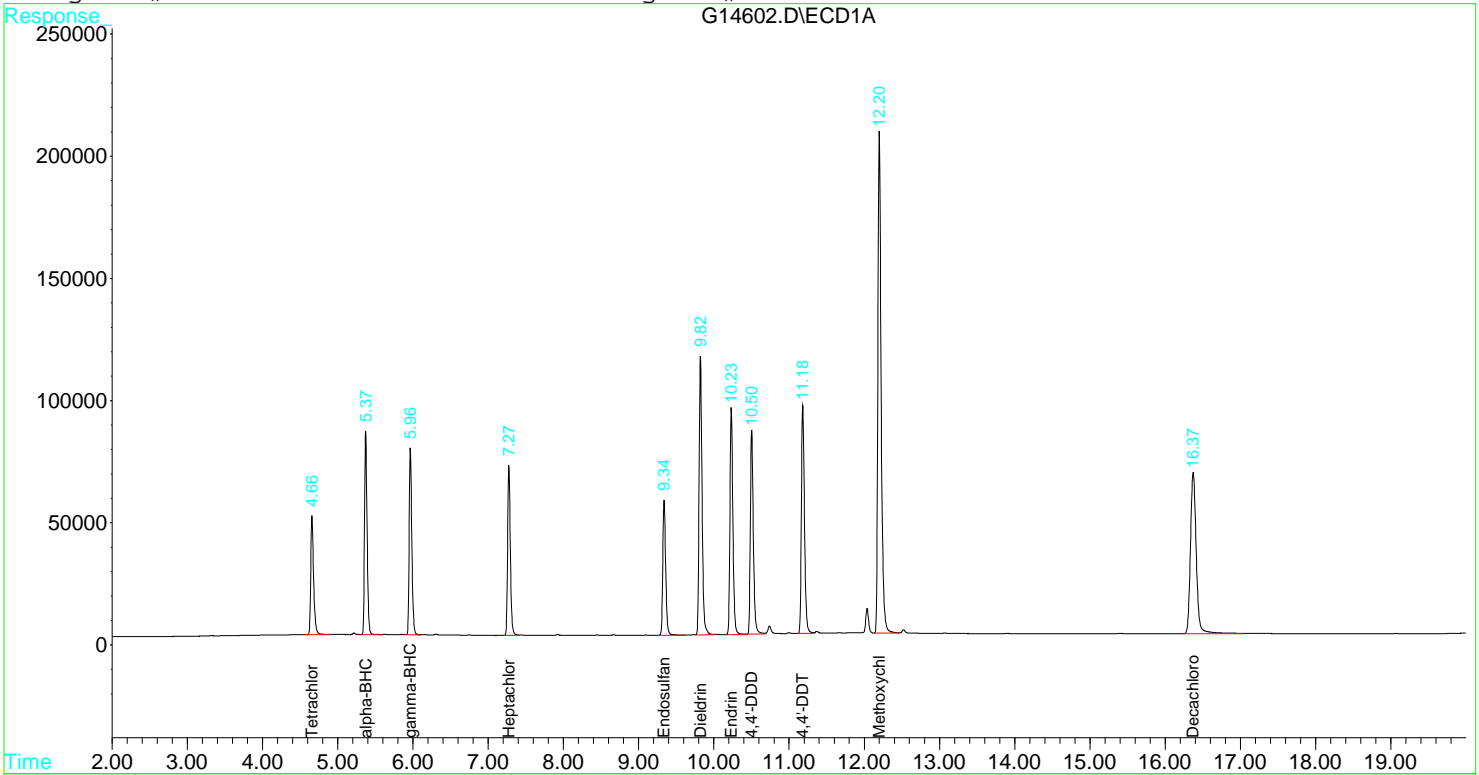
Target Compounds

2) A alpha-BHC	5.37	6.20	1980114	2106104	0.689	0.720
3) AM gamma-BHC (Linda)	5.96	6.92	1858160	1913382	0.672	0.671m
4) AM Heptachlor	7.27	7.77	1755924	1439916	0.623	0.625
9) A Endosulfan I	9.34	10.19	1491686	1366104	0.591	0.609
13) AM Dieldrin	9.82	10.69	3140188	2828656	1.222	1.258
14) AM Endrin	10.23	11.23	2517848	2061168	1.240	1.210
16) A 4,4'-DDD	10.50	11.47	2292998	1989778	1.188	1.241
17) AM 4,4'-DDT	11.18	12.02	2643680	2368116	1.185	1.275
20) A Methoxychlor	12.20	13.30	6142312	4721922	5.471	5.797

Signal #1 : D:\G\DATA\DEC15\G1211\G14602.D\ECD1A.CH Vial: 3  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14602.D\ECD2B.CH  
 Acq On : 11 Dec 2015 9:47 Operator: JAM  
 Sample : S5L1105-CAL1 Inst : GCECD\_GH  
 Misc : MIX A 0.08 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 12:40 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14603.D\ECD1A.CH Vial: 4  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14603.D\ECD2B.CH  
 Acq On : 11 Dec 2015 10:16 Operator: JAM  
 Sample : S5L1105-CAL2 Inst : GCECD\_GH  
 Misc : MIX A 0.04 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:48 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.63	4.94	686782	805980	0.291	0.309
Spiked Amount	1.000	Range	30 - 150	Recovery =	29.10%#	30.90%
22) AS Decachlorobiphen	16.36	17.67	1932590	1896140	0.532	0.586
Spiked Amount	1.000	Range	30 - 150	Recovery =	53.20%	58.60%

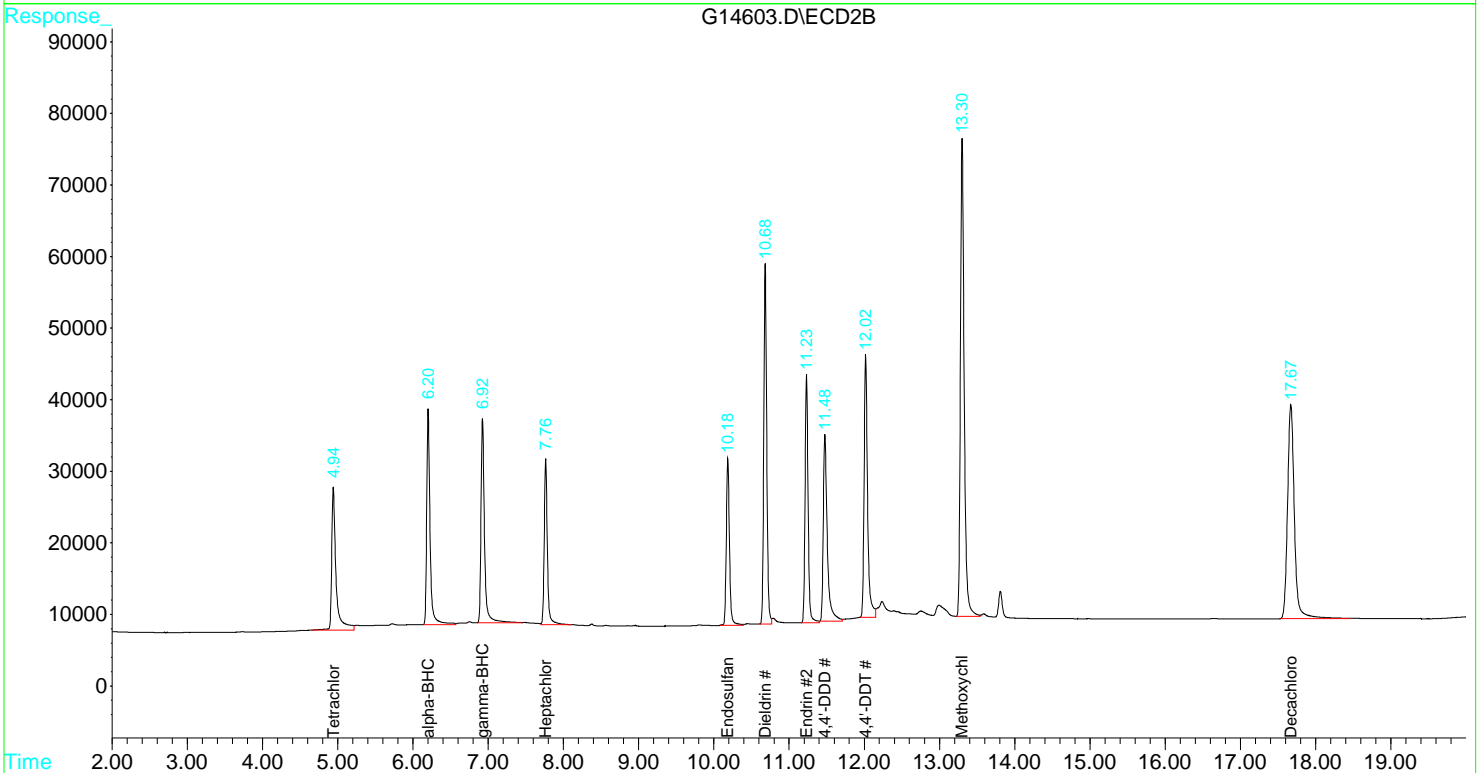
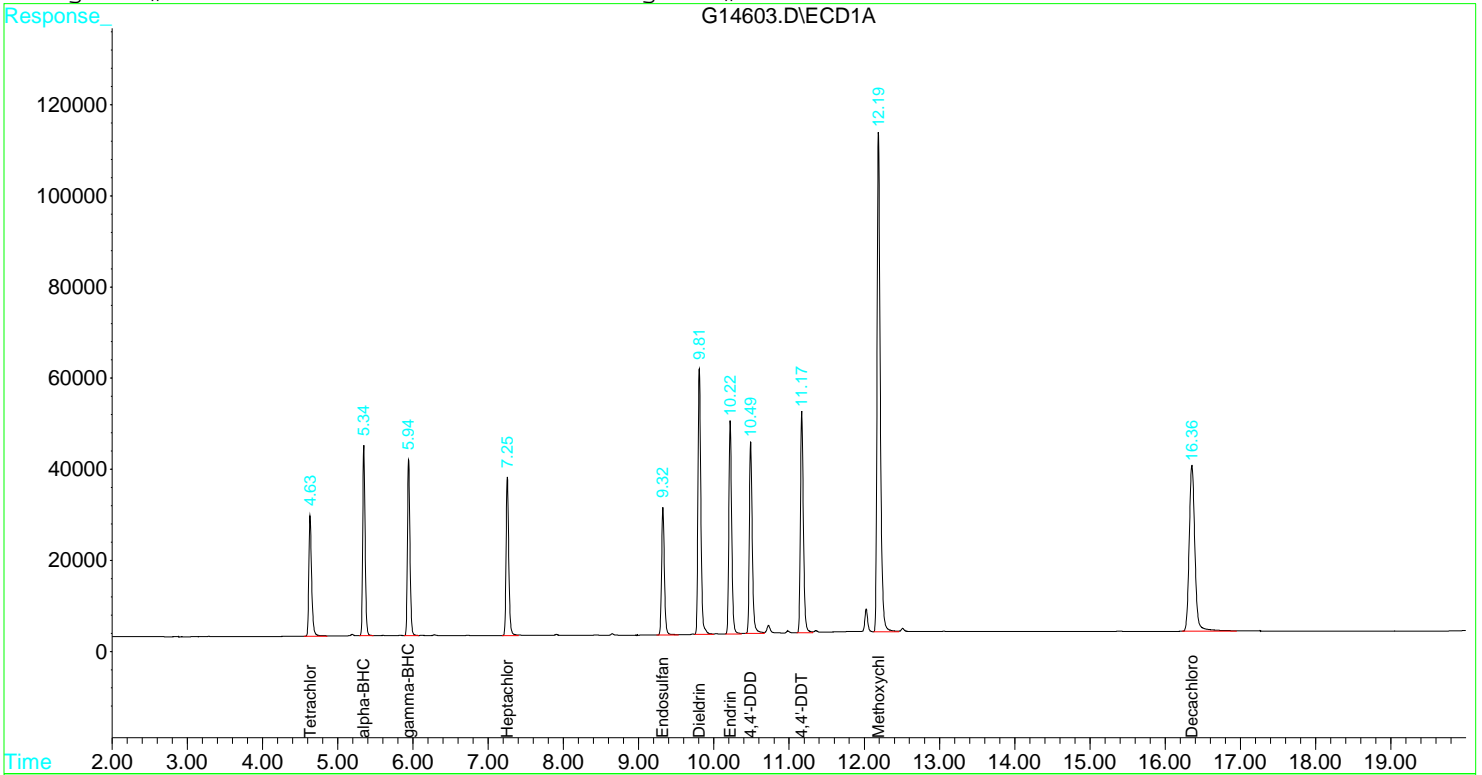
Target Compounds

2) A alpha-BHC	5.34	6.20	934822	939312	0.325	0.321
3) AM gamma-BHC (Linda)	5.94	6.92	894200	914316	0.323	0.321
4) AM Heptachlor	7.25	7.76	862404	679128	0.306	0.295
9) A Endosulfan I	9.32	10.18	728364	682856	0.288	0.304
13) AM Dieldrin	9.81	10.68	1548184	1373764	0.602	0.611
14) AM Endrin	10.22	11.23	1219744	973702	0.601	0.572
16) A 4,4'-DDD	10.49	11.48	1133778	961992	0.587	0.600
17) AM 4,4'-DDT	11.17	12.02	1321246	1178808	0.592	0.635
20) A Methoxychlor	12.19	13.30	3252572	2312586	2.897	2.839

Signal #1 : D:\G\DATA\DEC15\G1211\G14603.D\ECD1A.CH Vial: 4  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14603.D\ECD2B.CH  
 Acq On : 11 Dec 2015 10:16 Operator: JAM  
 Sample : S5L1105-CAL2 Inst : GCECD\_GH  
 Misc : MIX A 0.04 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:48 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14604.D\ECD1A.CH Vial: 5  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14604.D\ECD2B.CH  
 Acq On : 11 Dec 2015 10:46 Operator: JAM  
 Sample : S5L1105-CAL3 Inst : GCECD\_GH  
 Misc : MIX A 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:49 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.63	4.94	355180	414806	0.151	0.159m
Spiked Amount	1.000	Range	30 - 150	Recovery	=	15.10%# 15.90%#
22) AS Decachlorobiphen	16.35	17.67	1035686	1003628	0.285	0.310
Spiked Amount	1.000	Range	30 - 150	Recovery	=	28.50%# 31.00%

Target Compounds

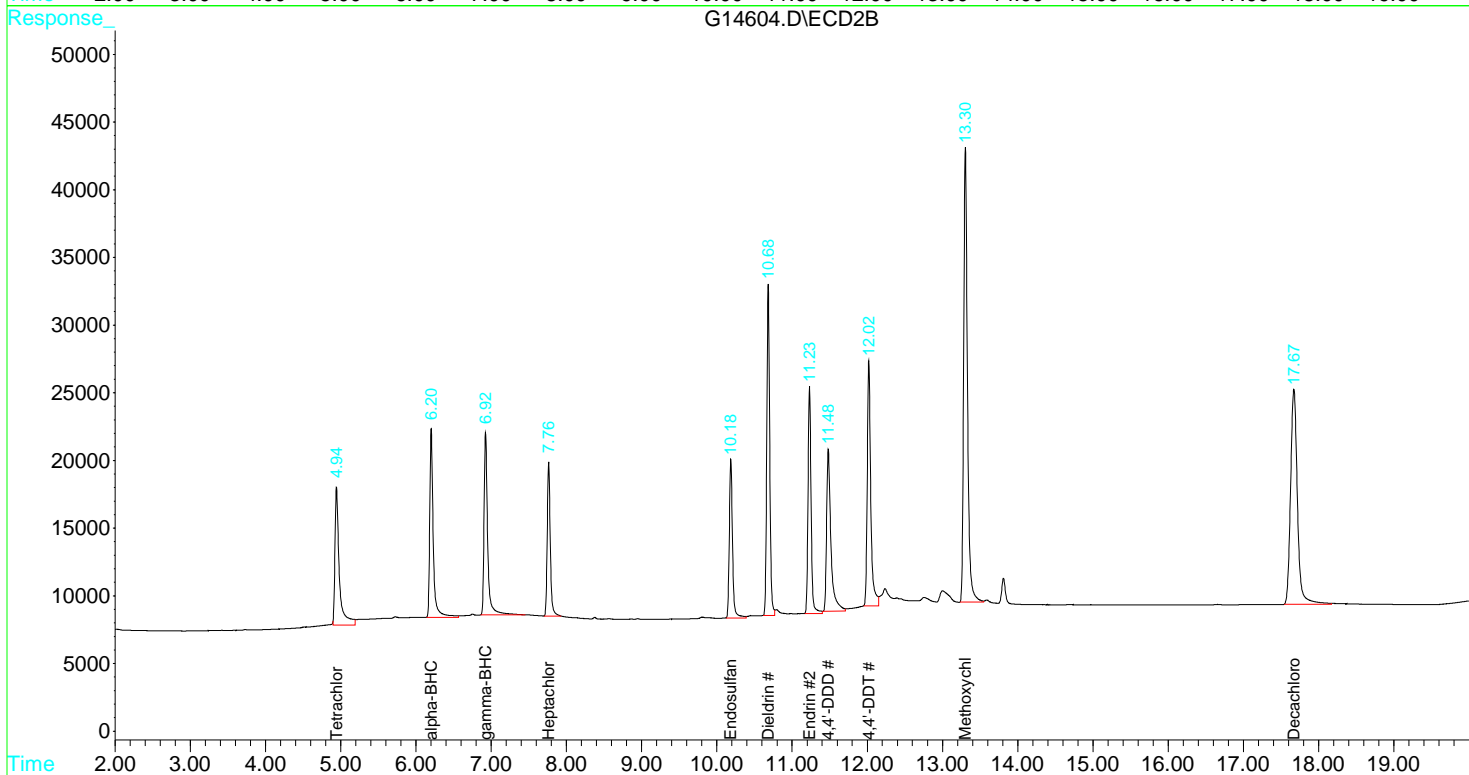
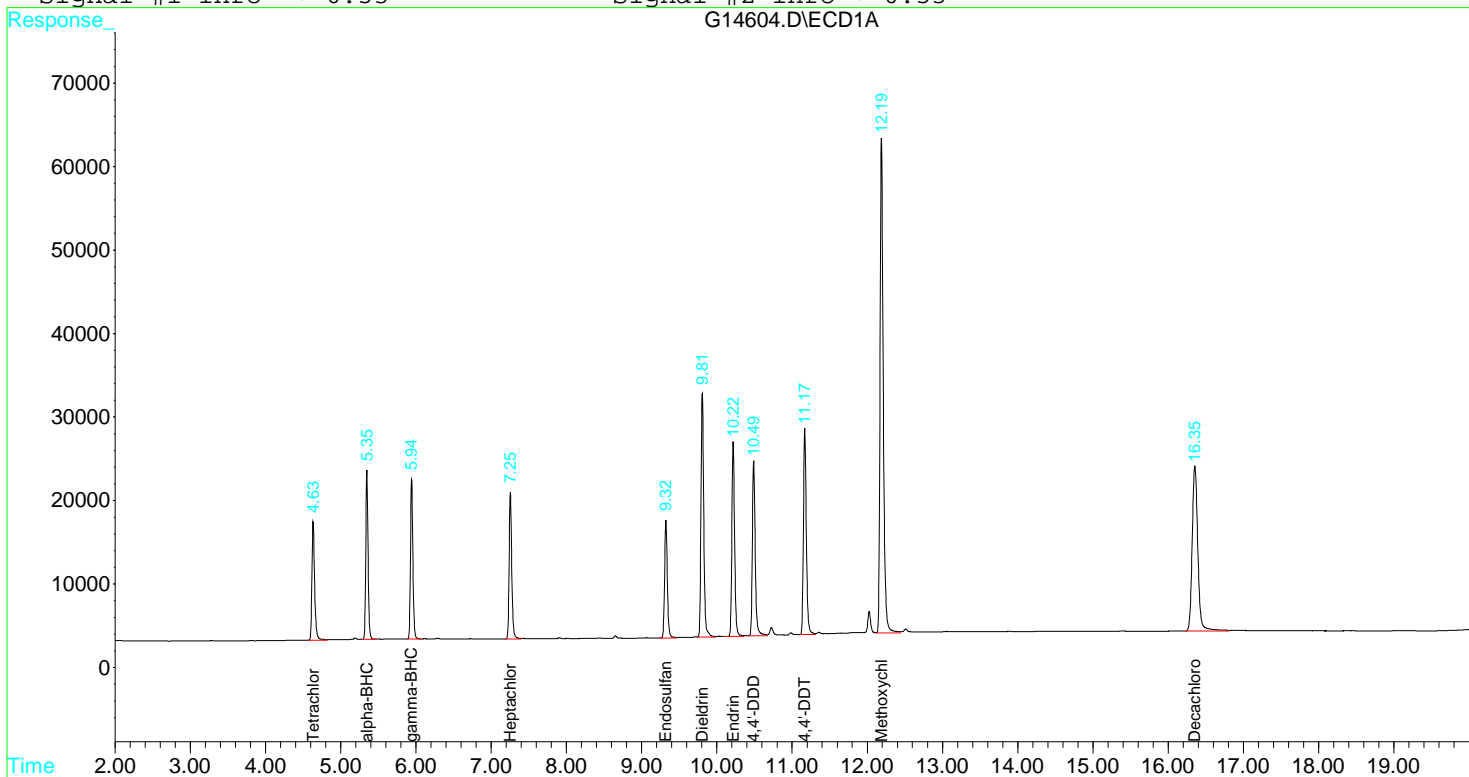
2) A alpha-BHC	5.35	6.20	428460	451598	0.149	0.154
3) AM gamma-BHC (Linda)	5.94	6.92	420892	449506	0.152	0.158
4) AM Heptachlor	7.25	7.76	423040	322630	0.150	0.140m
9) A Endosulfan I	9.32	10.18	356876	345504	0.141	0.154
13) AM Dieldrin	9.81	10.68	749494	668158	0.292	0.297
14) AM Endrin	10.22	11.23	591844	476928	0.292	0.280
16) A 4,4'-DDD	10.49	11.48	551062	475214	0.285	0.296
17) AM 4,4'-DDT	11.17	12.02	655752	592444	0.294	0.319
20) A Methoxychlor	12.19	13.30	1744712	1176164	1.554	1.444



Signal #1 : D:\G\DATA\DEC15\G1211\G14604.D\ECD1A.CH Vial: 5  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14604.D\ECD2B.CH  
 Acq On : 11 Dec 2015 10:46 Operator: JAM  
 Sample : S5L1105-CAL3 Inst : GCECD\_GH  
 Misc : MIX A 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:49 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14605.D\ECD1A.CH Vial: 6  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14605.D\ECD2B.CH  
 Acq On : 11 Dec 2015 11:15 Operator: JAM  
 Sample : S5L1105-CAL4 Inst : GCECD\_GH  
 Misc : MIX A 0.01 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:51 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.63	4.94	175670	209472	0.075	0.080m
Spiked Amount	1.000	Range	30 - 150	Recovery	=	7.50%# 8.00%#
22) AS Decachlorobiphen	16.35	17.67	545452	518592	0.150	0.160
Spiked Amount	1.000	Range	30 - 150	Recovery	=	15.00%# 16.00%#

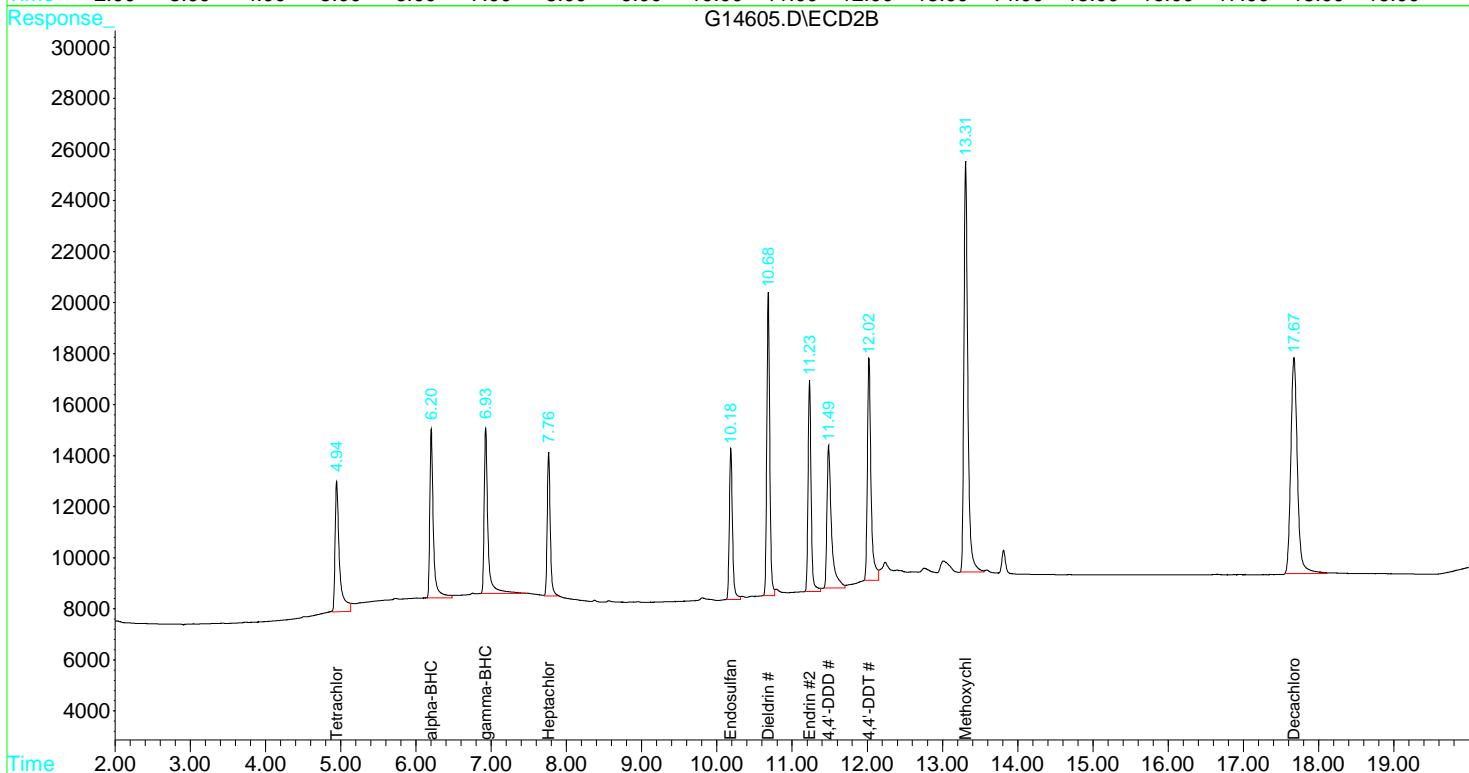
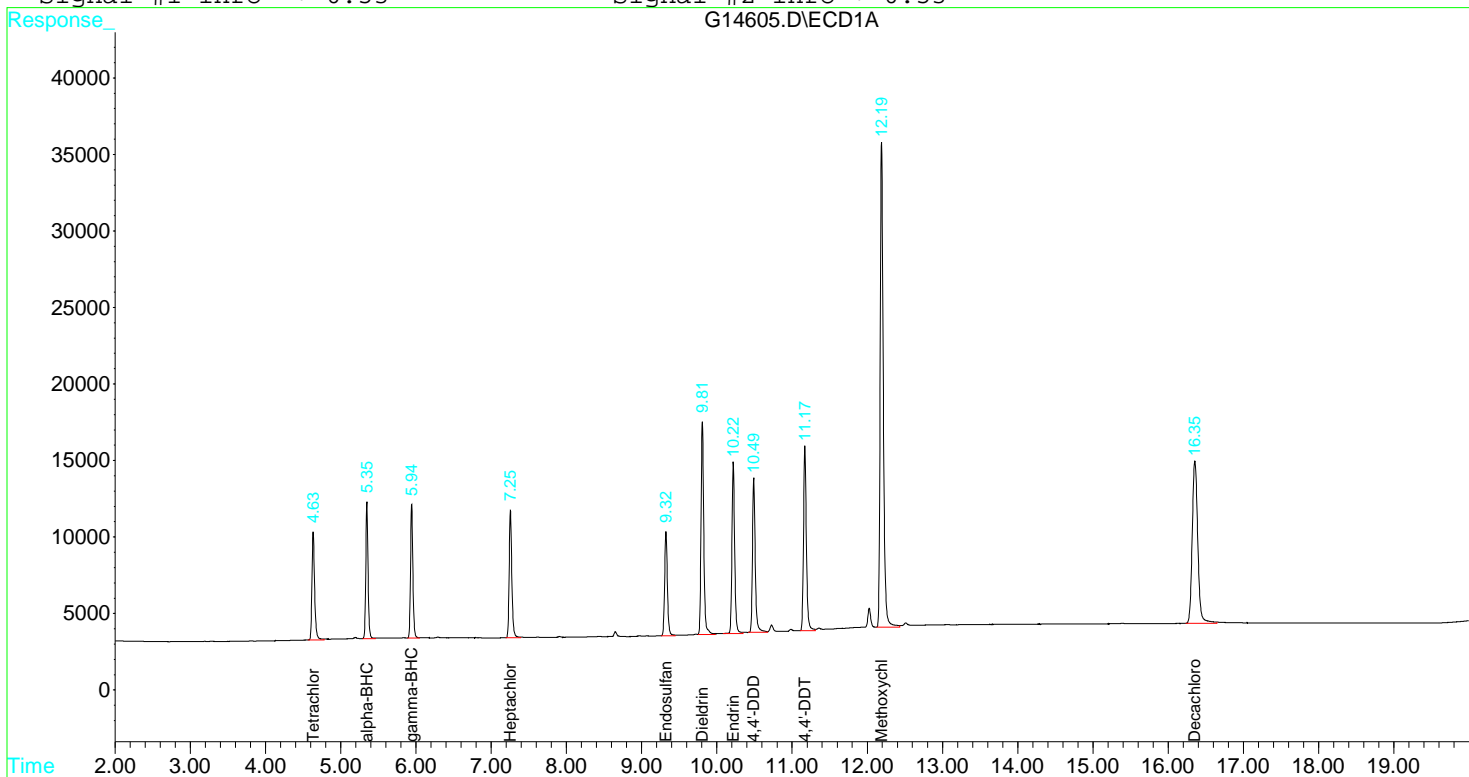
Target Compounds

2) A alpha-BHC	5.35	6.20	186192	218622	0.065	0.075
3) AM gamma-BHC (Linda)	5.94	6.93	188256	224876	0.068	0.079
4) AM Heptachlor	7.25	7.76	205092	158240	0.073	0.069m
9) A Endosulfan I	9.32	10.18	174192	172210	0.069	0.077
13) AM Dieldrin	9.81	10.68	350042	323562	0.136	0.144
14) AM Endrin	10.22	11.23	281070	233756	0.138	0.137
16) A 4,4'-DDD	10.49	11.49	258106	232828	0.134	0.145
17) AM 4,4'-DDT	11.17	12.02	315842	292660	0.142	0.158
20) A Methoxychlor	12.19	13.31	914088	576954	0.814	0.708

Signal #1 : D:\G\DATA\DEC15\G1211\G14605.D\ECD1A.CH Vial: 6  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14605.D\ECD2B.CH  
 Acq On : 11 Dec 2015 11:15 Operator: JAM  
 Sample : S5L1105-CAL4 Inst : GCECD\_GH  
 Misc : MIX A 0.01 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 11:51 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14606.D\ECD1A.CH Vial: 7  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14606.D\ECD2B.CH  
 Acq On : 11 Dec 2015 11:44 Operator: JAM  
 Sample : S5L1105-CAL5 Inst : GCECD\_GH  
 Misc : MIX A 0.002 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 12:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

1) AS Tetrachloro-m-xy	4.63	4.95	39040	50534	0.017	0.019
Spiked Amount	1.000	Range	30 - 150	Recovery	=	1.70%# 1.90%#
22) AS Decachlorobiphen	16.35	17.67	127876	122244	0.035	0.038m
Spiked Amount	1.000	Range	30 - 150	Recovery	=	3.50%# 3.80%#

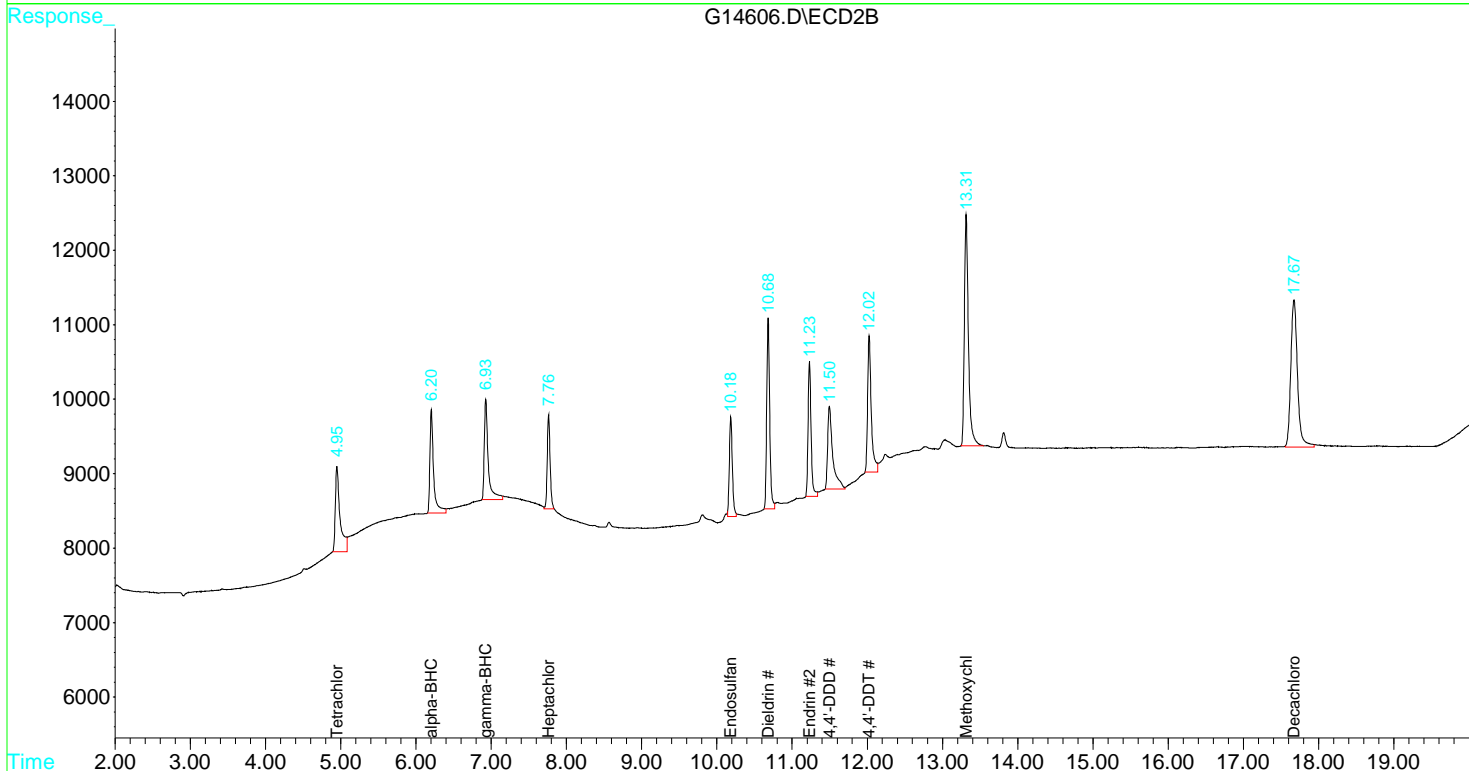
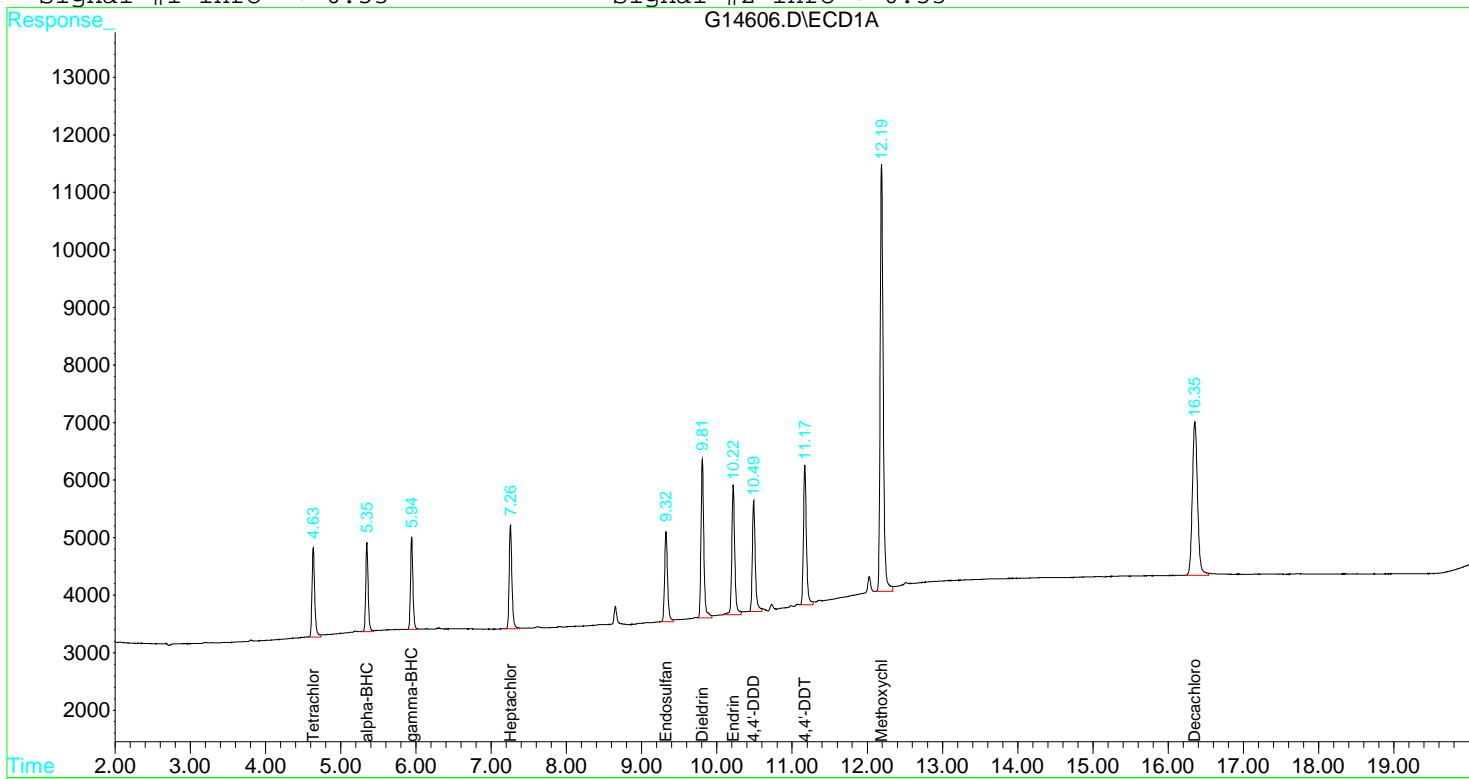
Target Compounds

2) A alpha-BHC	5.35	6.20	34686	47576	0.012	0.016 #
3) AM gamma-BHC (Linda)	5.94	6.93	35740	49318	0.013	0.017 #
4) AM Heptachlor	7.26	7.76	46198	33830	0.016	0.015m
9) A Endosulfan I	9.32	10.18	42866	37246	0.017	0.017m
13) AM Dieldrin	9.81	10.68	71340	71290	0.028	0.032
14) AM Endrin	10.22	11.23	61796	51152	0.030	0.030
16) A 4,4'-DDD	10.49	11.50	51682	51730	0.027	0.032
17) AM 4,4'-DDT	11.17	12.02	65760	62098	0.029	0.033
20) A Methoxychlor	12.19	13.31	209192	115676	0.186	0.142

Signal #1 : D:\G\DATA\DEC15\G1211\G14606.D\ECD1A.CH Vial: 7  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14606.D\ECD2B.CH  
 Acq On : 11 Dec 2015 11:44 Operator: JAM  
 Sample : S5L1105-CAL5 Inst : GCECD\_GH  
 Misc : MIX A 0.002 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 11 12:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Thu Dec 10 08:50:53 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14607.D\ECD1A.CH Vial: 8  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14607.D\ECD2B.CH  
 Acq On : 11 Dec 2015 15:59 Operator: JAM  
 Sample : S5L1105-CAL6 Inst : GCECD\_GH  
 Misc : MIX B 0.08 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:21 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

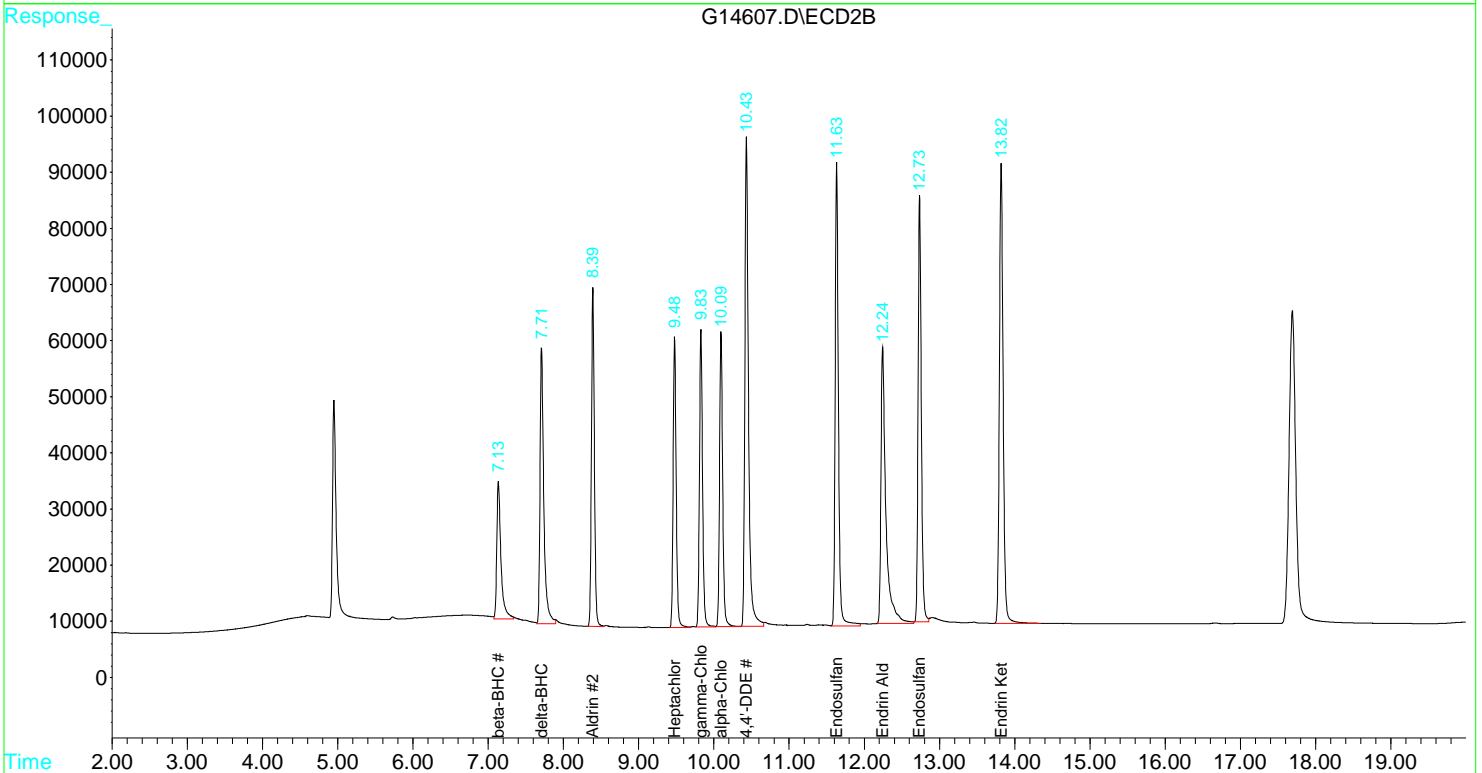
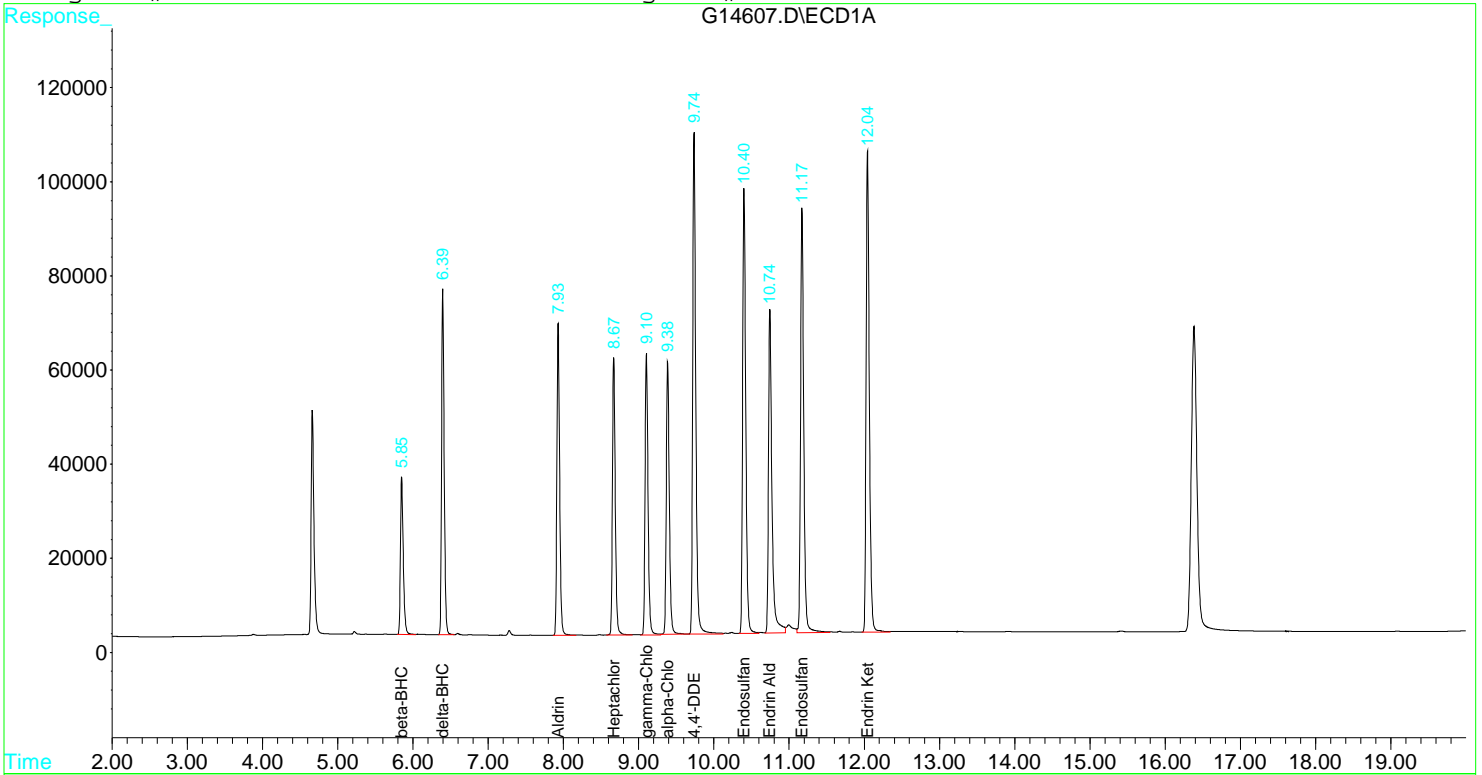
Target Compounds

5) BM Aldrin	7.93	8.39	1706566	1635876	0.904	0.868
6) B beta-BHC	5.85	7.13	877226	950754	0.798	0.840m
7) B delta-BHC	6.39	7.71	1750226	1713954	0.985	0.982m
8) B Heptachlor Epoxi	8.67	9.48	1552688	1454102	0.796	0.976
10) B gamma-Chlordane	9.10	9.83	1622660	1507460	0.857	0.785
11) B alpha-Chlordane	9.38	10.09	1608884	1492224	0.847	0.833
12) B 4,4'-DDE	9.74	10.43	3033738	2923874	1.745	1.719
15) B Endosulfan II	10.40	11.63	2663500	2484402	1.666	1.707
18) B Endrin Aldehyde	10.74	12.24	2190596	2234254	1.362	1.242
19) B Endosulfan Sulfa	11.17	12.73	2642584	2265124	1.709	1.723
21) B Endrin Ketone	12.04	13.82	3057164	2871142	1.643	1.694

Signal #1 : D:\G\DATA\DEC15\G1211\G14607.D\ECD1A.CH Vial: 8  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14607.D\ECD2B.CH  
 Acq On : 11 Dec 2015 15:59 Operator: JAM  
 Sample : S5L1105-CAL6 Inst : GCECD\_GH  
 Misc : MIX B 0.08 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:21 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14608.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14608.D\ECD2B.CH  
 Acq On : 11 Dec 2015 16:28 Operator: JAM  
 Sample : S5L1105-CAL7 Inst : GCECD\_GH  
 Misc : MIX B 0.04 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:22 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

Target Compounds

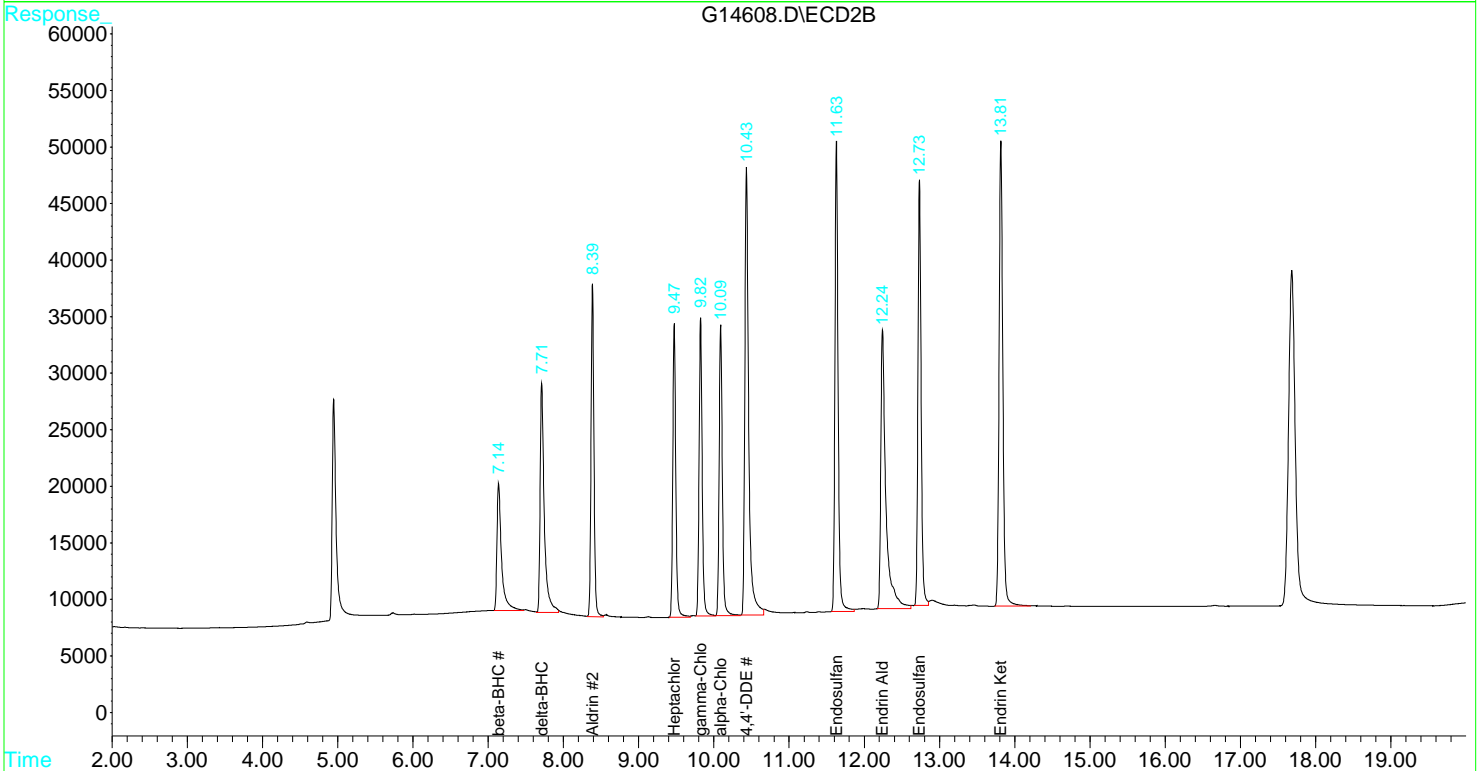
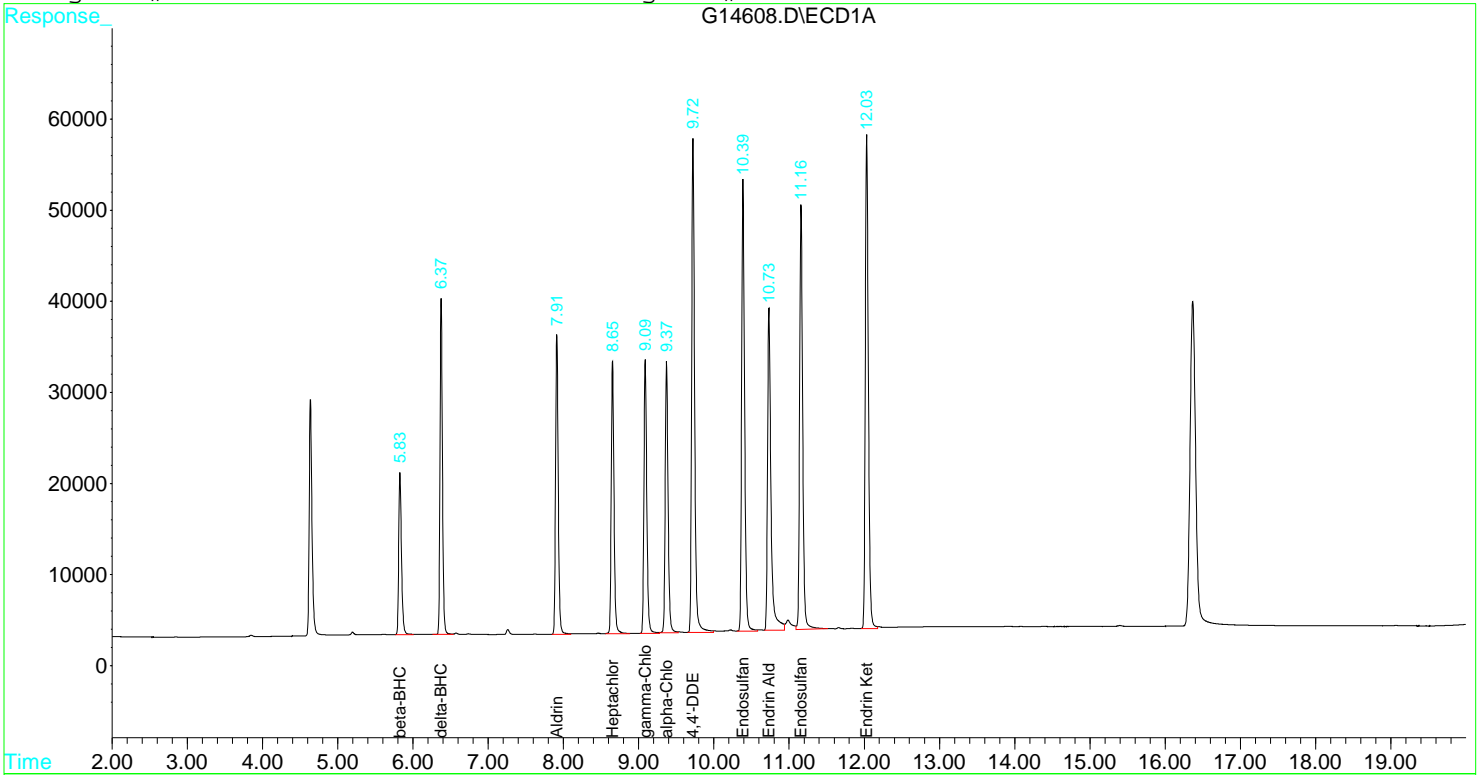
5) BM Aldrin	7.91	8.39	816308	796014	0.432	0.422
6) B beta-BHC	5.83	7.14	451128	478262	0.410	0.423
7) B delta-BHC	6.37	7.71	827690	777080	0.466	0.445m
8) B Heptachlor Epoxi	8.65	9.47	764336	724748	0.392	0.487
10) B gamma-Chlordane	9.09	9.82	790728	749522	0.418	0.390
11) B alpha-Chlordane	9.37	10.09	788492	747764	0.415	0.418
12) B 4,4'-DDE	9.72	10.43	1491626	1412570	0.858	0.831
15) B Endosulfan II	10.39	11.63	1342046	1232238	0.840	0.847
18) B Endrin Aldehyde	10.73	12.24	1119336	1155404	0.696	0.642
19) B Endosulfan Sulfa	11.16	12.73	1305062	1112112	0.844	0.846
21) B Endrin Ketone	12.03	13.81	1548652	1435884	0.832	0.847



Signal #1 : D:\G\DATA\DEC15\G1211\G14608.D\ECD1A.CH Vial: 9  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14608.D\ECD2B.CH  
 Acq On : 11 Dec 2015 16:28 Operator: JAM  
 Sample : S5L1105-CAL7 Inst : GCECD\_GH  
 Misc : MIX B 0.04 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:22 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14609.D\ECD1A.CH Vial: 10  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14609.D\ECD2B.CH  
 Acq On : 11 Dec 2015 16:57 Operator: JAM  
 Sample : S5L1105-CAL8 Inst : GCECD\_GH  
 Misc : MIX B 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:23 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

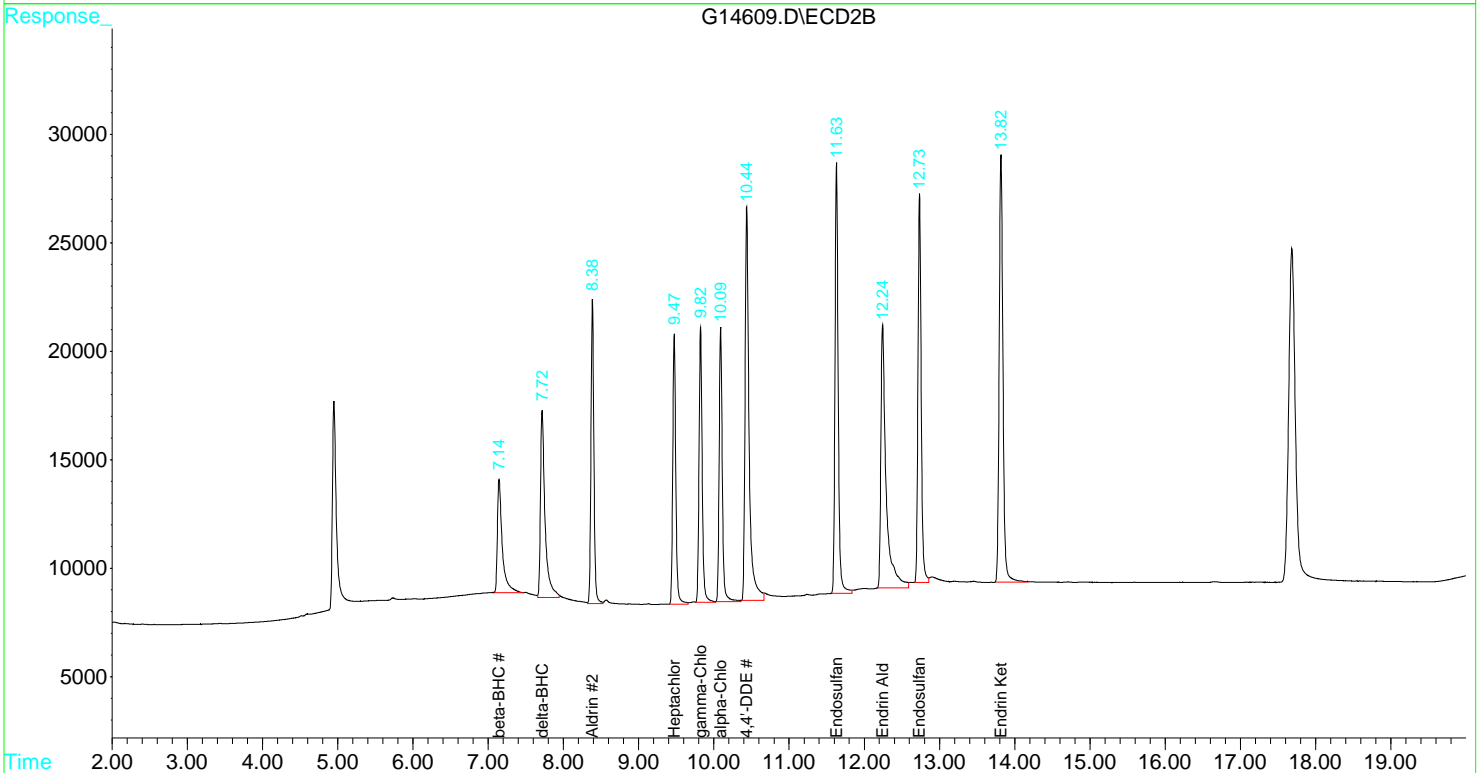
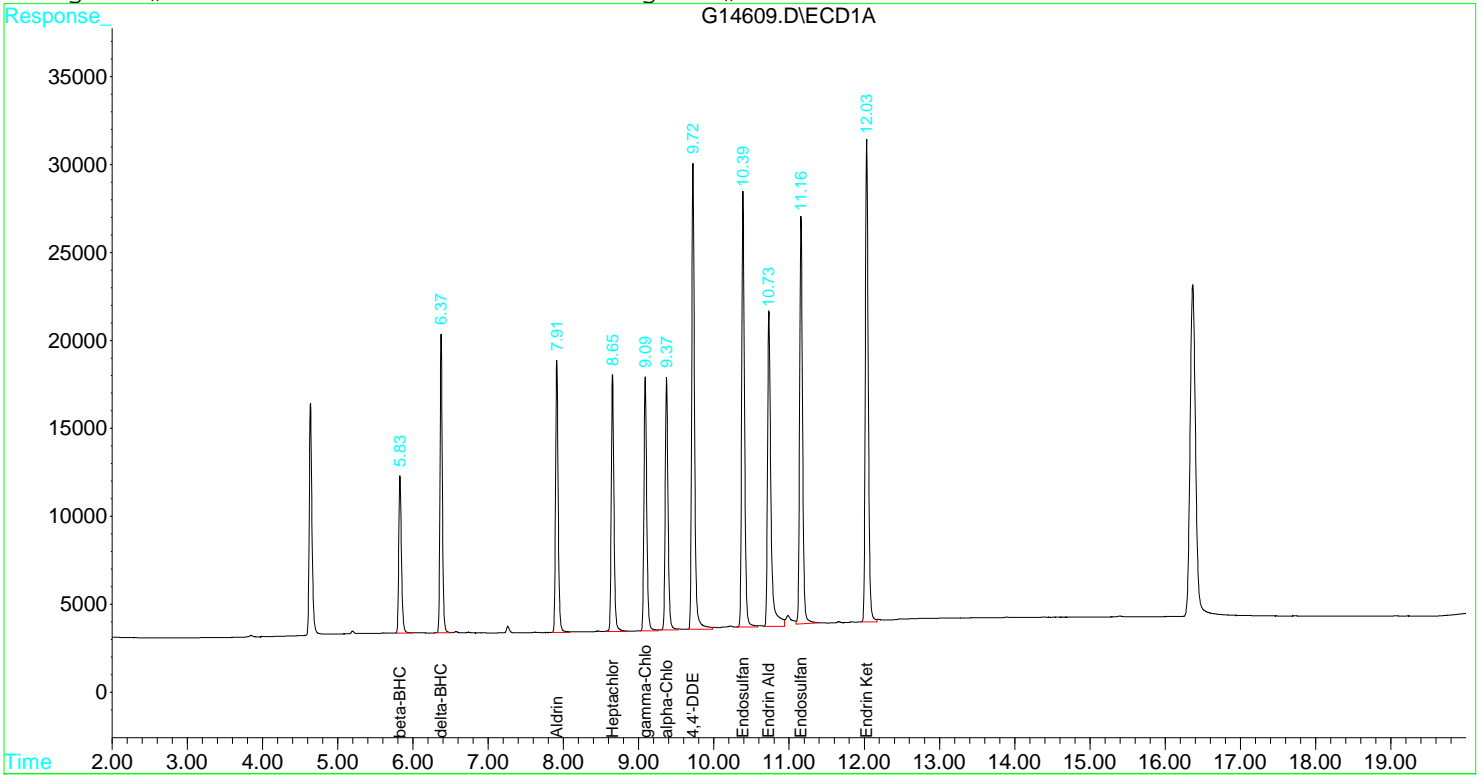
Target Compounds

5) BM Aldrin	7.91	8.38	372250	378742	0.197	0.201
6) B beta-BHC	5.83	7.14	220398	238136	0.201	0.210
7) B delta-BHC	6.37	7.72	362742	365304	0.204	0.209m
8) B Heptachlor Epoxi	8.65	9.47	363502	351154	0.186	0.236 #
10) B gamma-Chlordane	9.09	9.82	373142	366172	0.197	0.191
11) B alpha-Chlordane	9.37	10.09	374108	365326	0.197	0.204
12) B 4,4'-DDE	9.72	10.44	701272	675394	0.403	0.397
15) B Endosulfan II	10.39	11.63	643468	591354	0.403	0.406
18) B Endrin Aldehyde	10.73	12.24	558582	586534	0.347	0.326
19) B Endosulfan Sulfa	11.16	12.73	619172	535976	0.400	0.408
21) B Endrin Ketone	12.03	13.82	752042	695268	0.404	0.410

Signal #1 : D:\G\DATA\DEC15\G1211\G14609.D\ECD1A.CH Vial: 10  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14609.D\ECD2B.CH  
 Acq On : 11 Dec 2015 16:57 Operator: JAM  
 Sample : S5L1105-CAL8 Inst : GCECD\_GH  
 Misc : MIX B 0.02 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:23 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14610.D\ECD1A.CH Vial: 11  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14610.D\ECD2B.CH  
 Acq On : 11 Dec 2015 17:26 Operator: JAM  
 Sample : S5L1105-CAL9 Inst : GCECD\_GH  
 Misc : MIX B 0.01 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:25 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

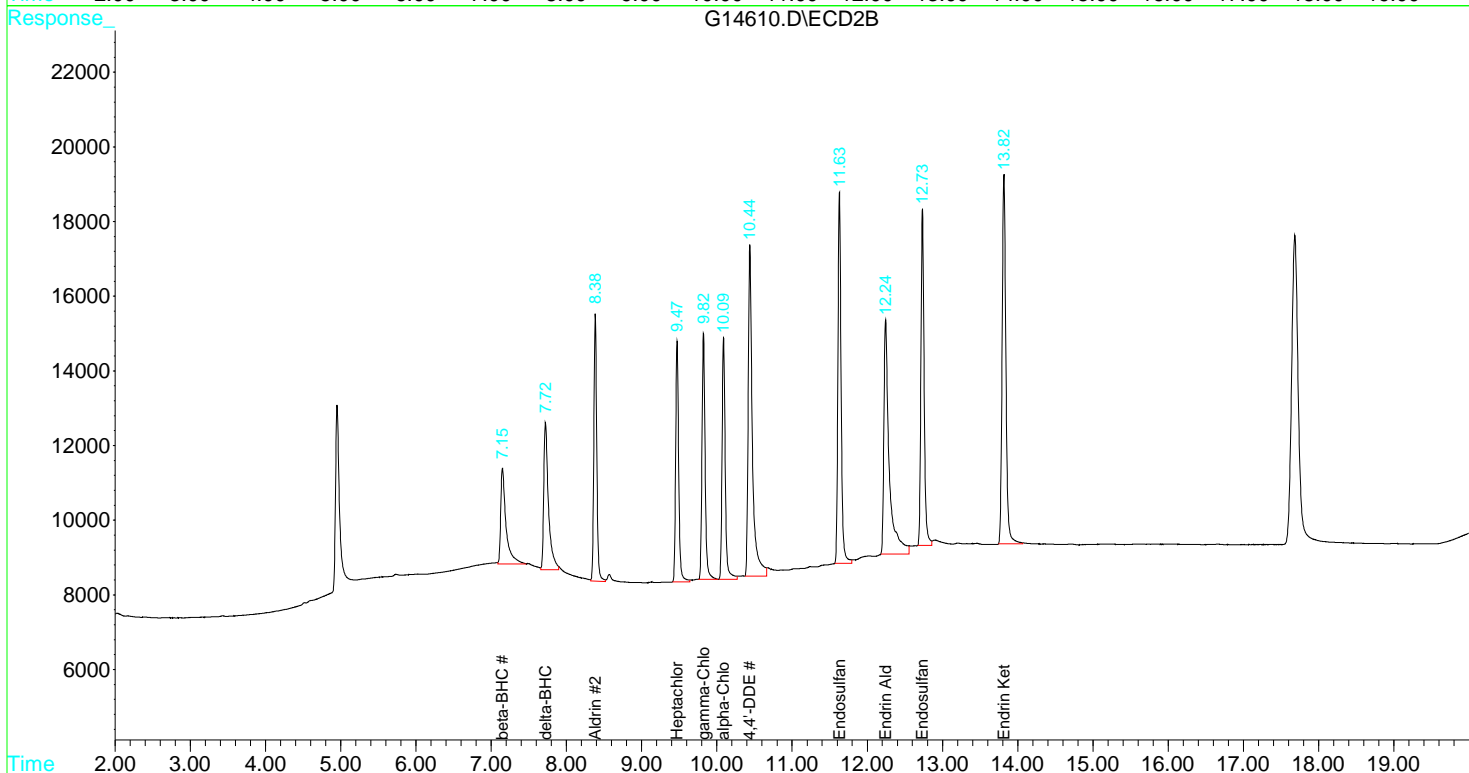
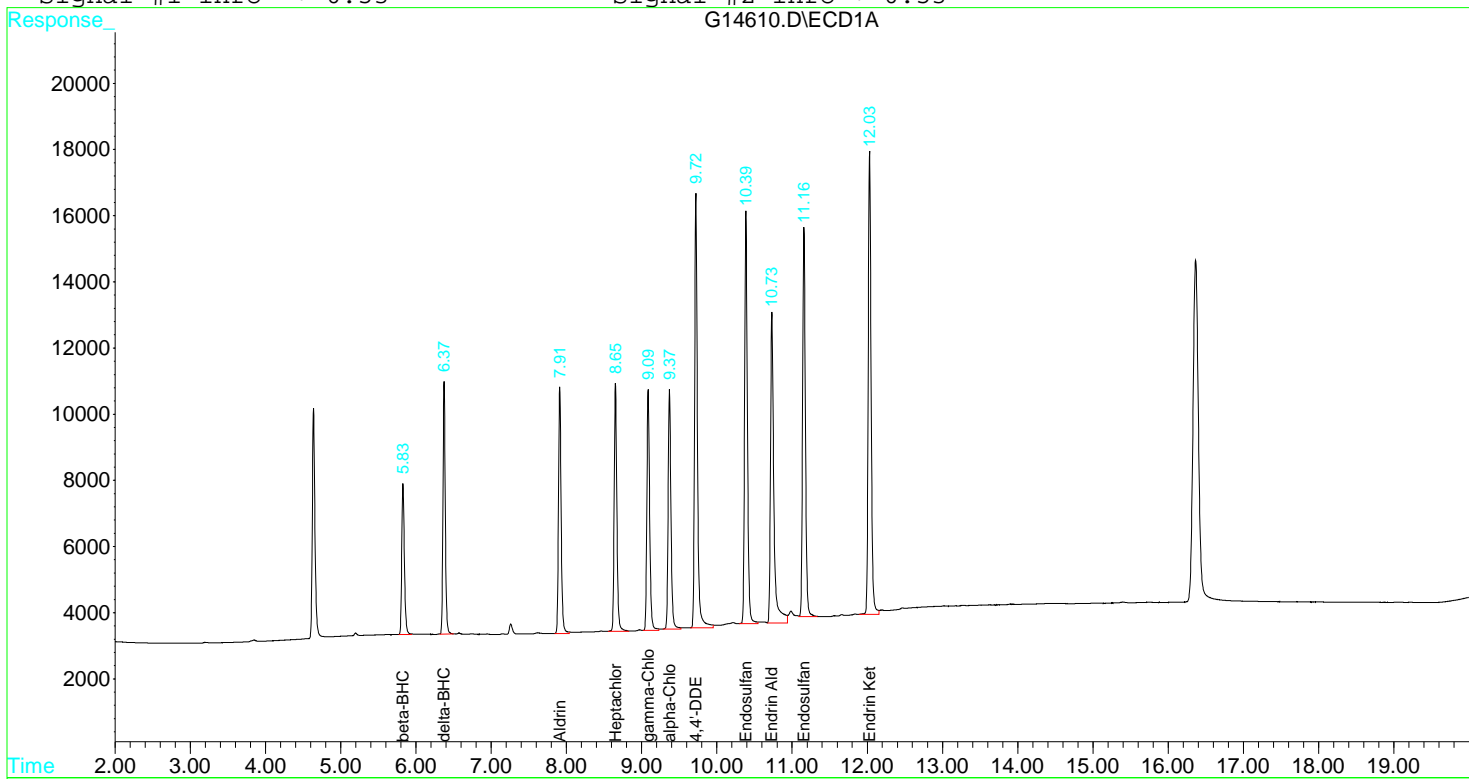
Target Compounds

5) BM Aldrin	7.91	8.38	180440	193740	0.096	0.103
6) B beta-BHC	5.83	7.15	110820	125978	0.101	0.111
7) B delta-BHC	6.37	7.72	163048	171522	0.092	0.098m
8) B Heptachlor Epoxi	8.65	9.47	186984	181536	0.096	0.122 #
10) B gamma-Chlordane	9.09	9.82	187578	191080	0.099	0.100
11) B alpha-Chlordane	9.37	10.09	188904	189038	0.099	0.106
12) B 4,4'-DDE	9.72	10.44	342770	342604	0.197	0.201
15) B Endosulfan II	10.39	11.63	320310	296168	0.200	0.204
18) B Endrin Aldehyde	10.73	12.24	289836	309266	0.180	0.172
19) B Endosulfan Sulfa	11.16	12.73	301084	269130	0.195	0.205
21) B Endrin Ketone	12.03	13.82	375996	347100	0.202	0.205

Signal #1 : D:\G\DATA\DEC15\G1211\G14610.D\ECD1A.CH Vial: 11  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14610.D\ECD2B.CH  
 Acq On : 11 Dec 2015 17:26 Operator: JAM  
 Sample : S5L1105-CAL9 Inst : GCECD\_GH  
 Misc : MIX B 0.01 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:25 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14611.D\ECD1A.CH Vial: 12  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14611.D\ECD2B.CH  
 Acq On : 11 Dec 2015 17:56 Operator: JAM  
 Sample : S5L1105-CALA Inst : GCECD\_GH  
 Misc : MIX B 0.002 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:26 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

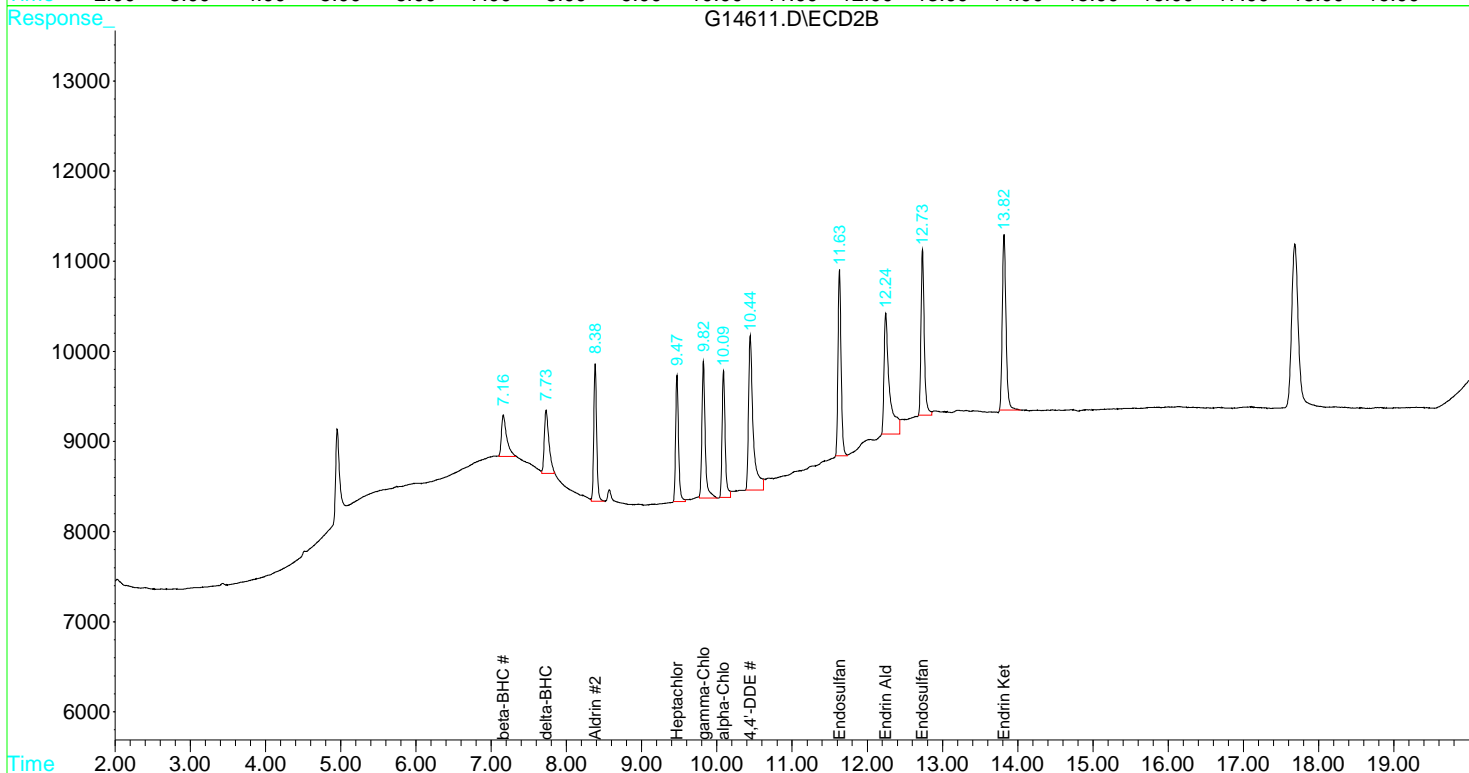
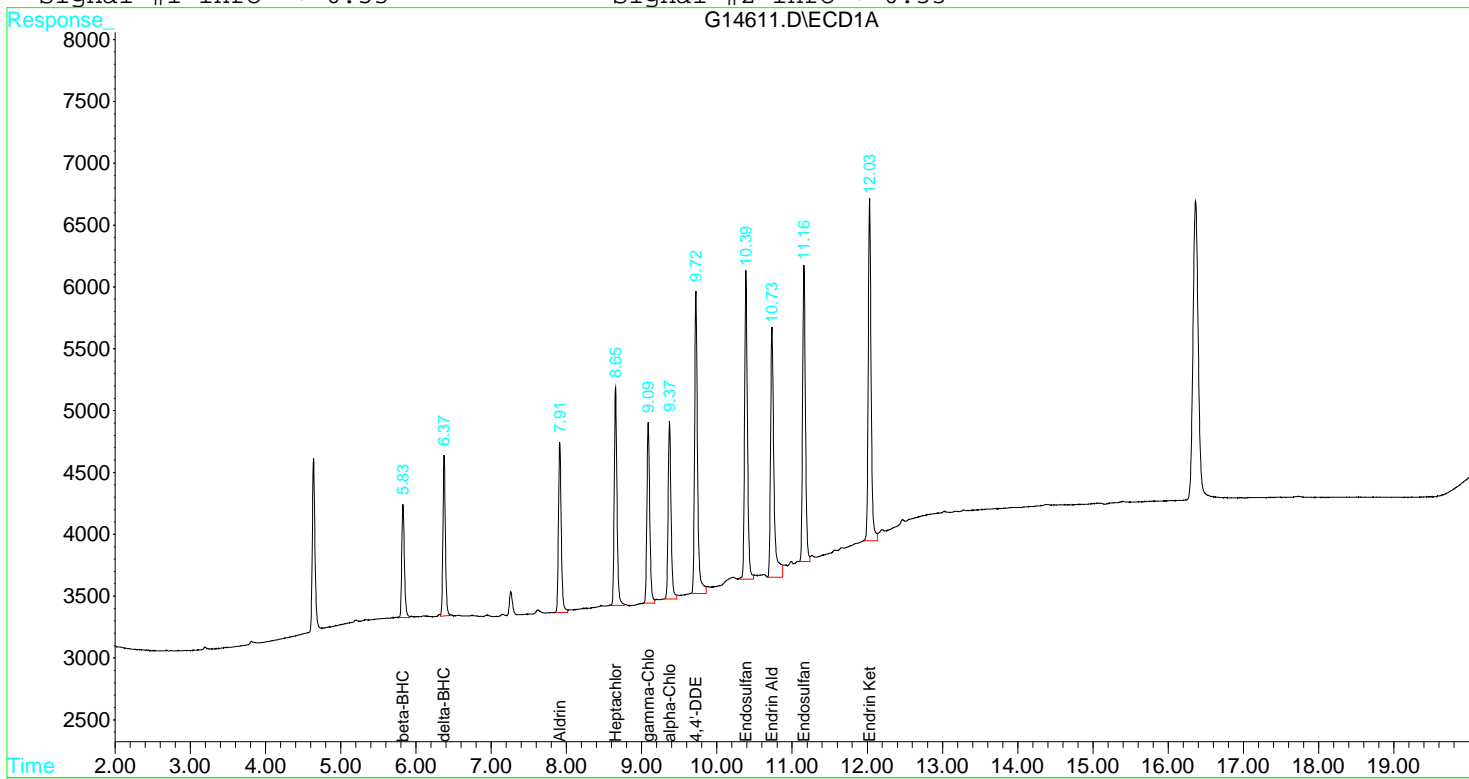
Target Compounds

5) BM Aldrin	7.91	8.38	35380	40814	0.019	0.022
6) B beta-BHC	5.83	7.16	22250	22538	0.020	0.020m
7) B delta-BHC	6.37	7.73	29140	30056	0.016	0.017m
8) B Heptachlor Epoxi	8.65	9.47	44740	38246	0.023	0.026
10) B gamma-Chlordane	9.09	9.82	38498	46760	0.020	0.024
11) B alpha-Chlordane	9.37	10.09	38906	40088	0.020	0.022
12) B 4,4'-DDE	9.72	10.44	66536	73092	0.038	0.043
15) B Endosulfan II	10.39	11.63	64826	59524	0.041	0.041
18) B Endrin Aldehyde	10.73	12.24	62694	66812	0.039	0.037
19) B Endosulfan Sulfa	11.16	12.73	61468	55916	0.040	0.043
21) B Endrin Ketone	12.03	13.82	73448	67888	0.039m	0.040

Signal #1 : D:\G\DATA\DEC15\G1211\G14611.D\ECD1A.CH Vial: 12  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14611.D\ECD2B.CH  
 Acq On : 11 Dec 2015 17:56 Operator: JAM  
 Sample : S5L1105-CALA Inst : GCECD\_GH  
 Misc : MIX B 0.002 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:26 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Fri Dec 11 15:23:58 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14612.D\ECD1A.CH Vial: 13  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14612.D\ECD2B.CH  
 Acq On : 11 Dec 2015 18:25 Operator: JAM  
 Sample : S5L1105-CALB Inst : GCECD\_GH  
 Misc : TOXAPHENE 10.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

Target Compounds

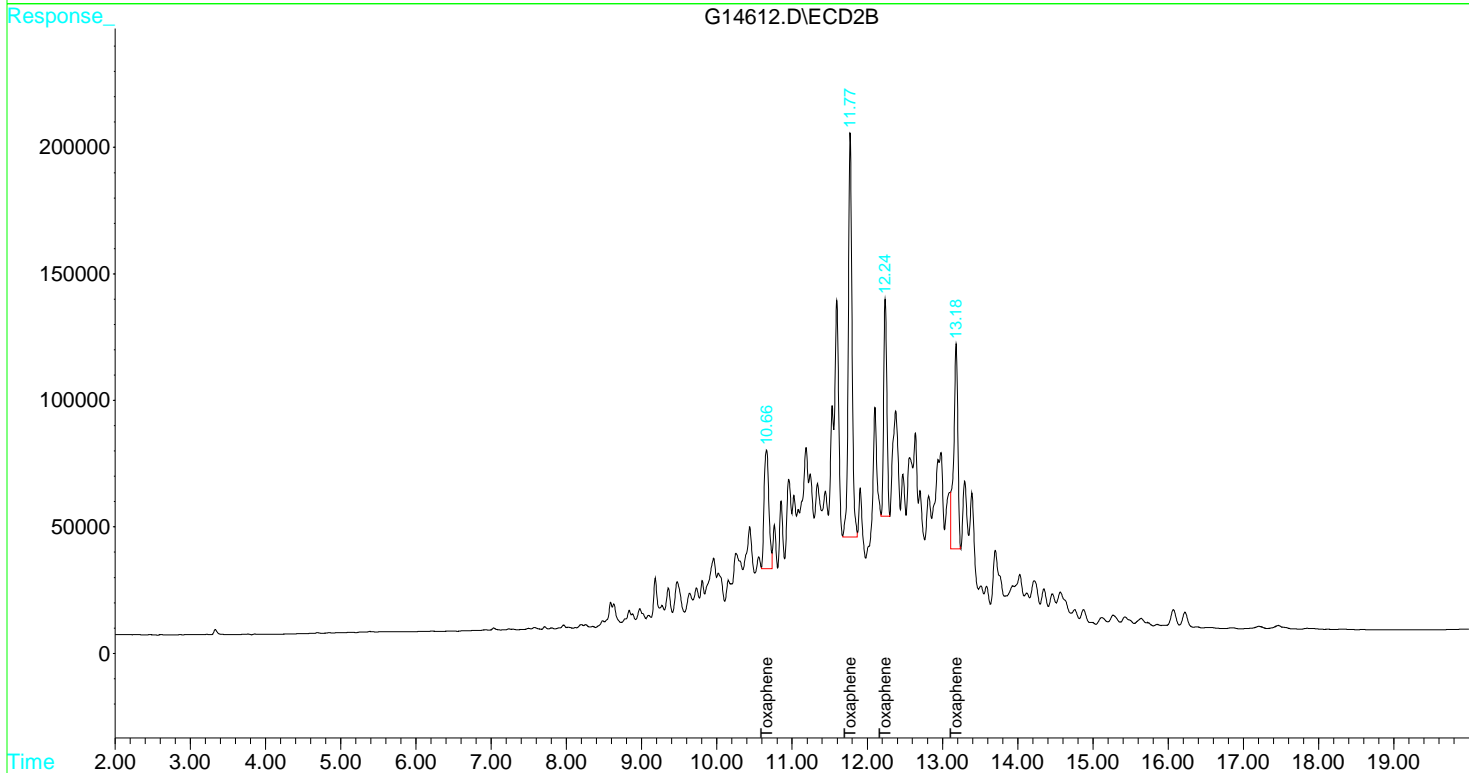
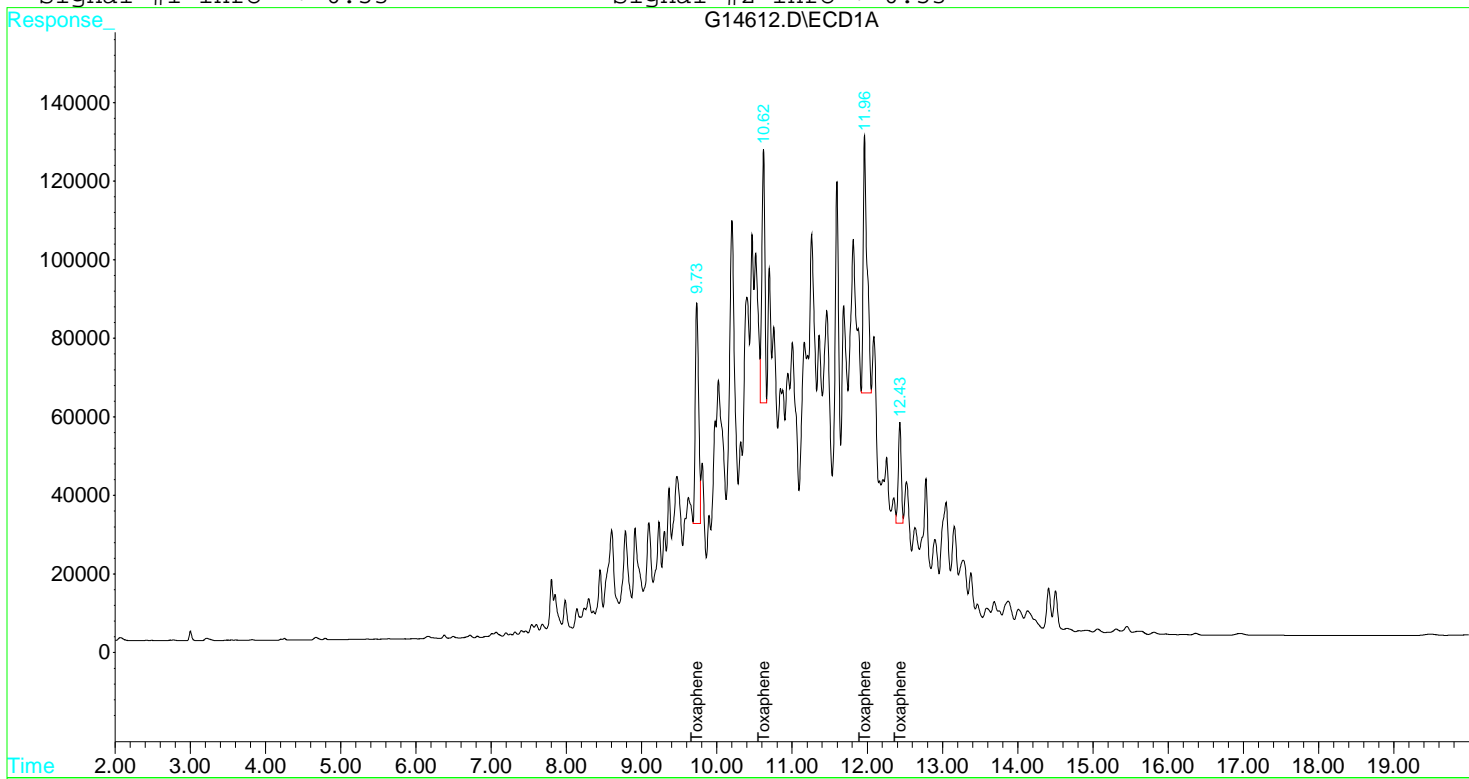
23)	Toxaphene {1}	9.73	10.66	1782562	2102560	51.062m	78.917m#
24)	Toxaphene {2}	10.62	11.77	1779252	5501332	35.684m	69.541m#
25)	Toxaphene {3}	11.96	12.24	2333322	2500096	31.727m	56.240m#
26)	Toxaphene {4}	12.43	13.18	697890	3078300	30.045m	70.766m#



Signal #1 : D:\G\DATA\DEC15\G1211\G14612.D\ECD1A.CH Vial: 13  
Signal #2 : D:\G\DATA\DEC15\G1211\G14612.D\ECD2B.CH  
Acq On : 11 Dec 2015 18:25 Operator: JAM  
Sample : S5L1105-CALB Inst : GCECD\_GH  
Misc : TOXAPHENE 10.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:29:10 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14613.D\ECD1A.CH Vial: 14  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14613.D\ECD2B.CH  
 Acq On : 11 Dec 2015 18:54 Operator: JAM  
 Sample : S5L1105-CALC Inst : GCECD\_GH  
 Misc : TOXAPHENE 5.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

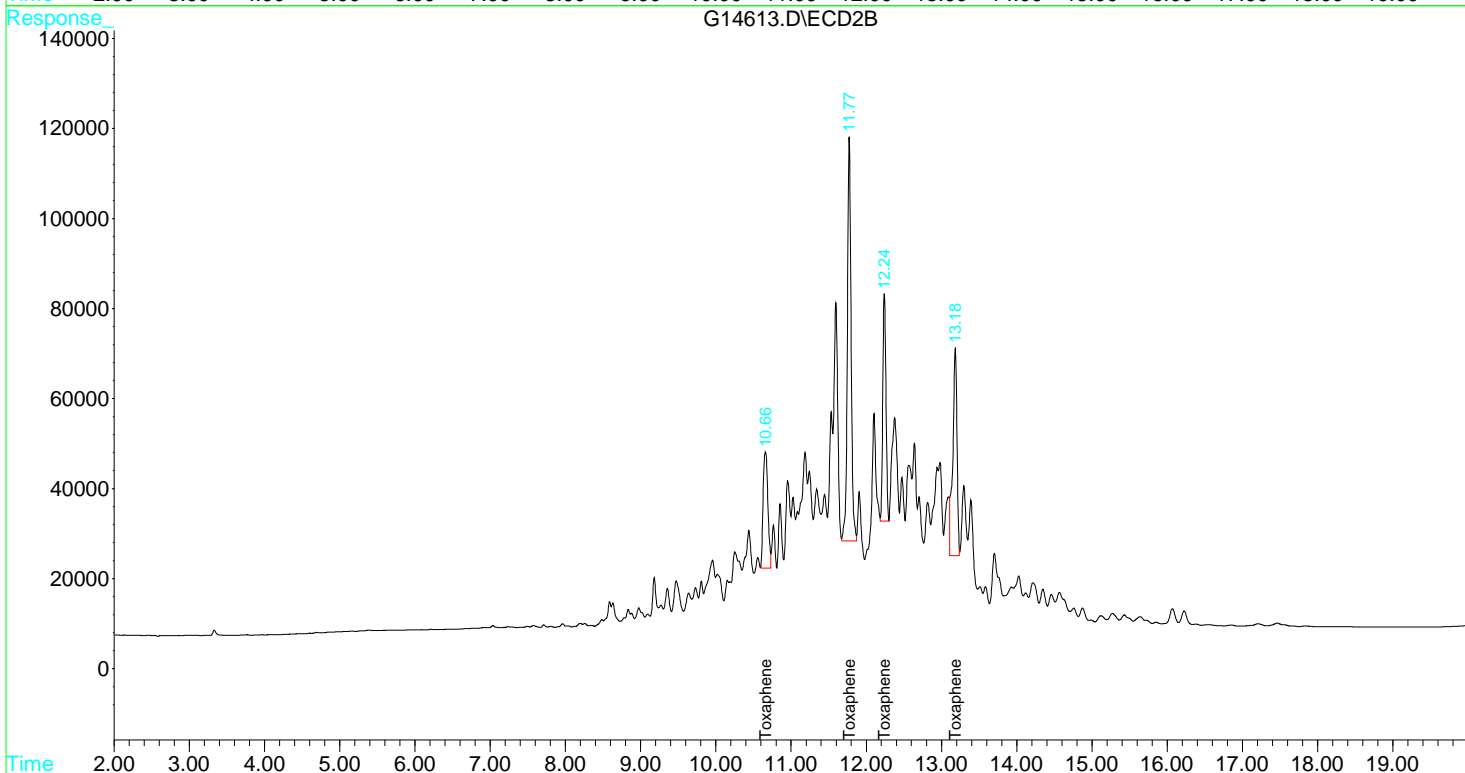
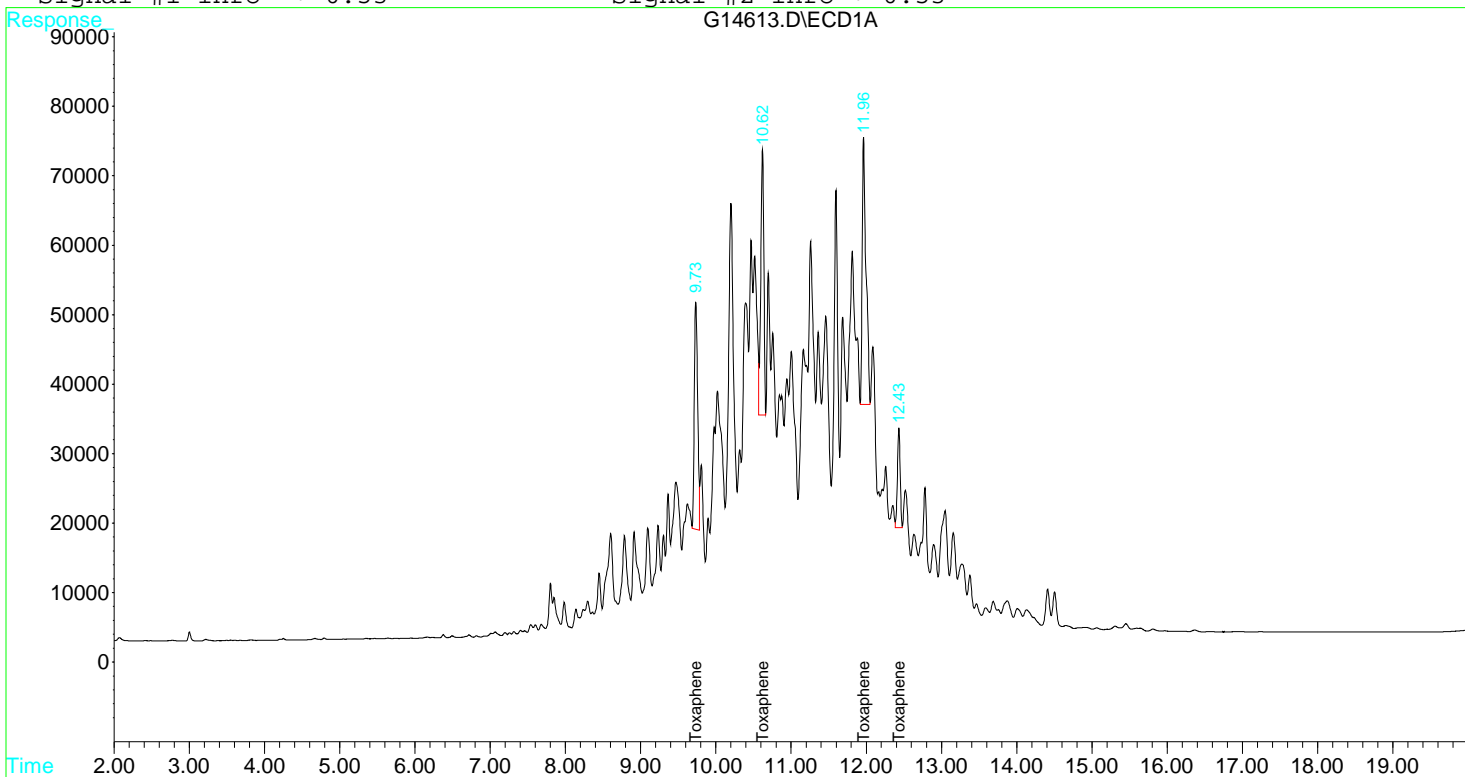
Target Compounds

23)	Toxaphene {1}	9.73	10.66	1035416	1150660	29.660	43.189m#
24)	Toxaphene {2}	10.62	11.77	1088278	3098982	21.826m	39.173m#
25)	Toxaphene {3}	11.96	12.24	1353884	1470612	18.409m	33.082m#
26)	Toxaphene {4}	12.43	13.18	366030	1793336	15.758m	41.226m#

Signal #1 : D:\G\DATA\DEC15\G1211\G14613.D\ECD1A.CH Vial: 14  
Signal #2 : D:\G\DATA\DEC15\G1211\G14613.D\ECD2B.CH  
Acq On : 11 Dec 2015 18:54 Operator: JAM  
Sample : S5L1105-CALC Inst : GCECD\_GH  
Misc : TOXAPHENE 5.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:29:10 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14614.D\ECD1A.CH Vial: 15  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14614.D\ECD2B.CH  
 Acq On : 11 Dec 2015 19:23 Operator: JAM  
 Sample : S5L1105-CALD Inst : GCECD\_GH  
 Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:34 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

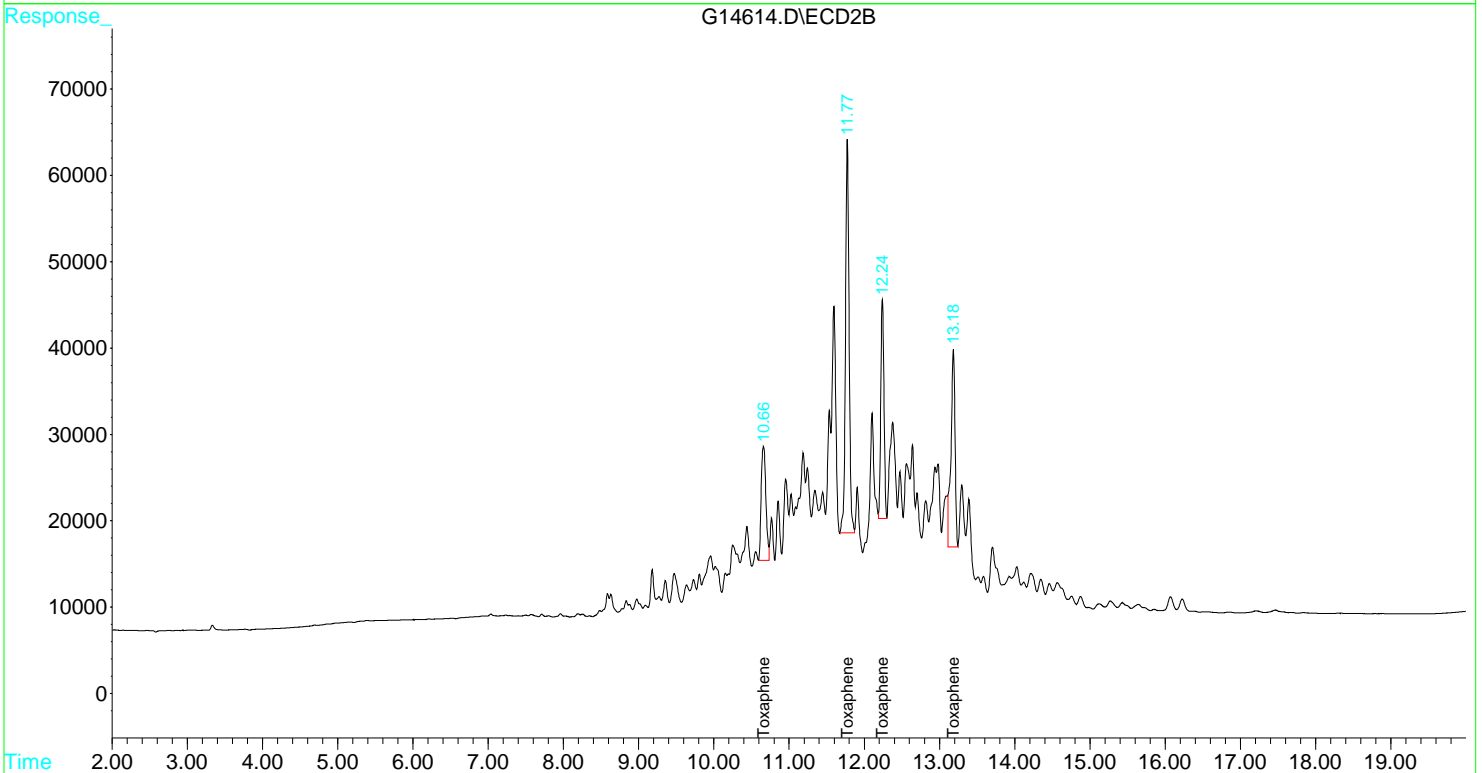
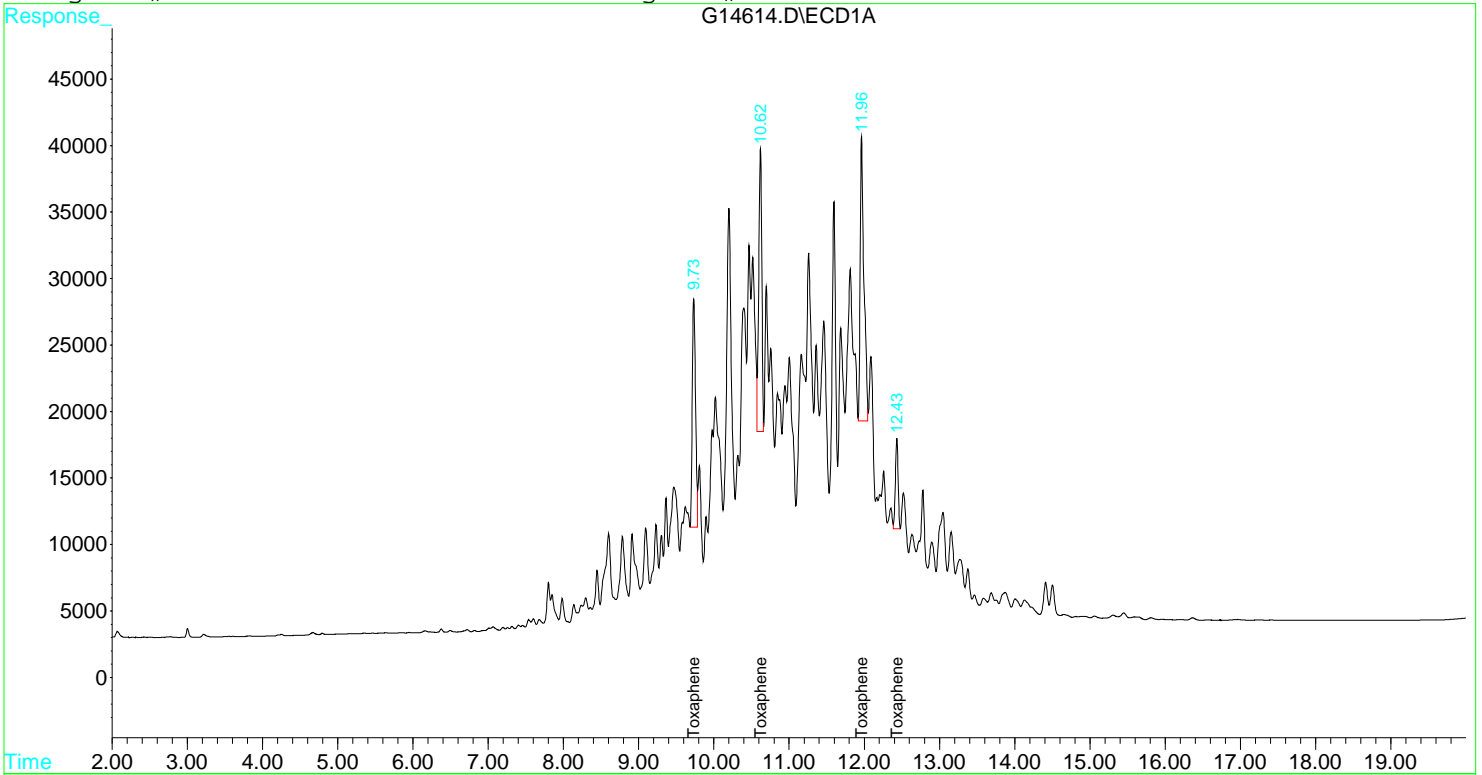
Target Compounds

23)	Toxaphene {1}	9.73	10.66	527870	579850	15.121	21.764 #
24)	Toxaphene {2}	10.62	11.77	602842	1521834	12.090m	19.237 #
25)	Toxaphene {3}	11.96	12.24	742654	735138	10.098m	16.537m#
26)	Toxaphene {4}	12.43	13.18	171616	859310	7.388	19.754m#

Signal #1 : D:\G\DATA\DEC15\G1211\G14614.D\ECD1A.CH Vial: 15  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14614.D\ECD2B.CH  
 Acq On : 11 Dec 2015 19:23 Operator: JAM  
 Sample : S5L1105-CALD Inst : GCECD\_GH  
 Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:34 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14615.D\ECD1A.CH Vial: 16  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14615.D\ECD2B.CH  
 Acq On : 11 Dec 2015 19:52 Operator: JAM  
 Sample : S5L1105-CALE Inst : GCECD\_GH  
 Misc : TOXAPHENE 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

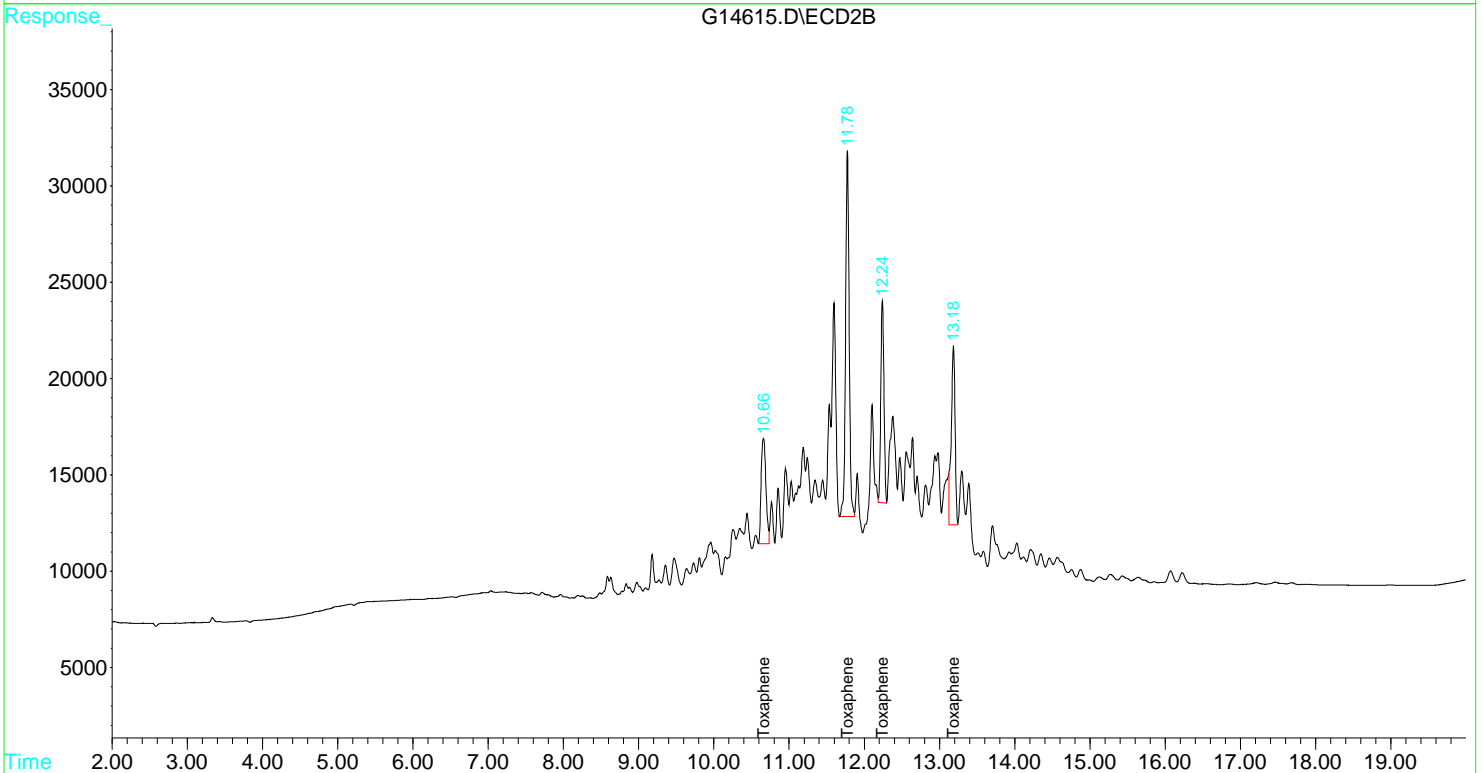
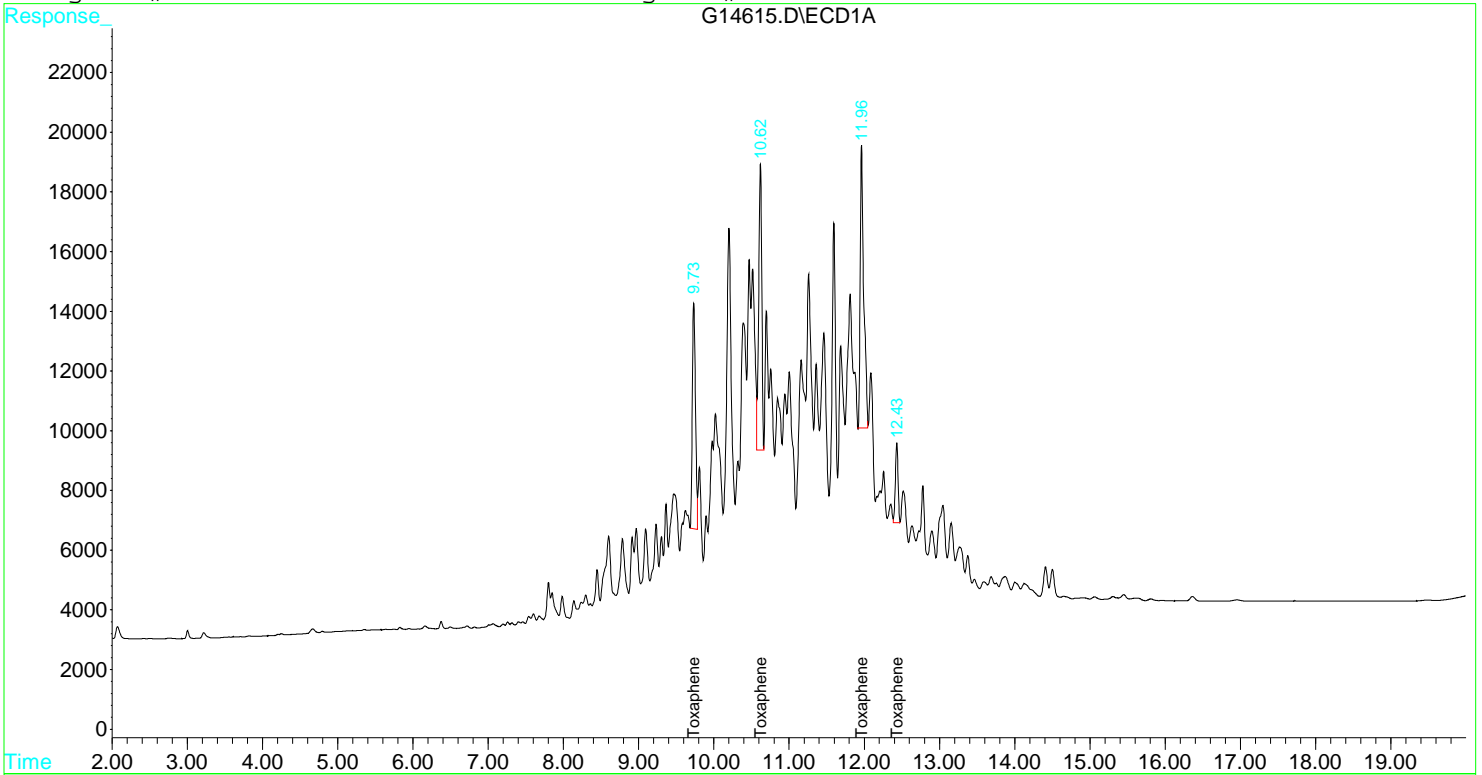
Target Compounds

23)	Toxaphene {1}	9.73	10.66	224730	243252	6.437	9.130 #
24)	Toxaphene {2}	10.62	11.78	272172	626690	5.459m	7.922 #
25)	Toxaphene {3}	11.96	12.24	310270	301186	4.219m	6.775 #
26)	Toxaphene {4}	12.43	13.18	66764	332156	2.874m	7.636m#

Signal #1 : D:\G\DATA\DEC15\G1211\G14615.D\ECD1A.CH Vial: 16  
Signal #2 : D:\G\DATA\DEC15\G1211\G14615.D\ECD2B.CH  
Acq On : 11 Dec 2015 19:52 Operator: JAM  
Sample : S5L1105-CALE Inst : GCECD\_GH  
Misc : TOXAPHENE 1.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:29:10 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14616.D\ECD1A.CH Vial: 17  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14616.D\ECD2B.CH  
 Acq On : 11 Dec 2015 20:21 Operator: JAM  
 Sample : S5L1105-CALF Inst : GCECD\_GH  
 Misc : TOXAPHENE 0.1 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:37 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
 Title : 8081 Pesticides  
 Last Update : Mon Dec 14 09:29:10 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

Target Compounds

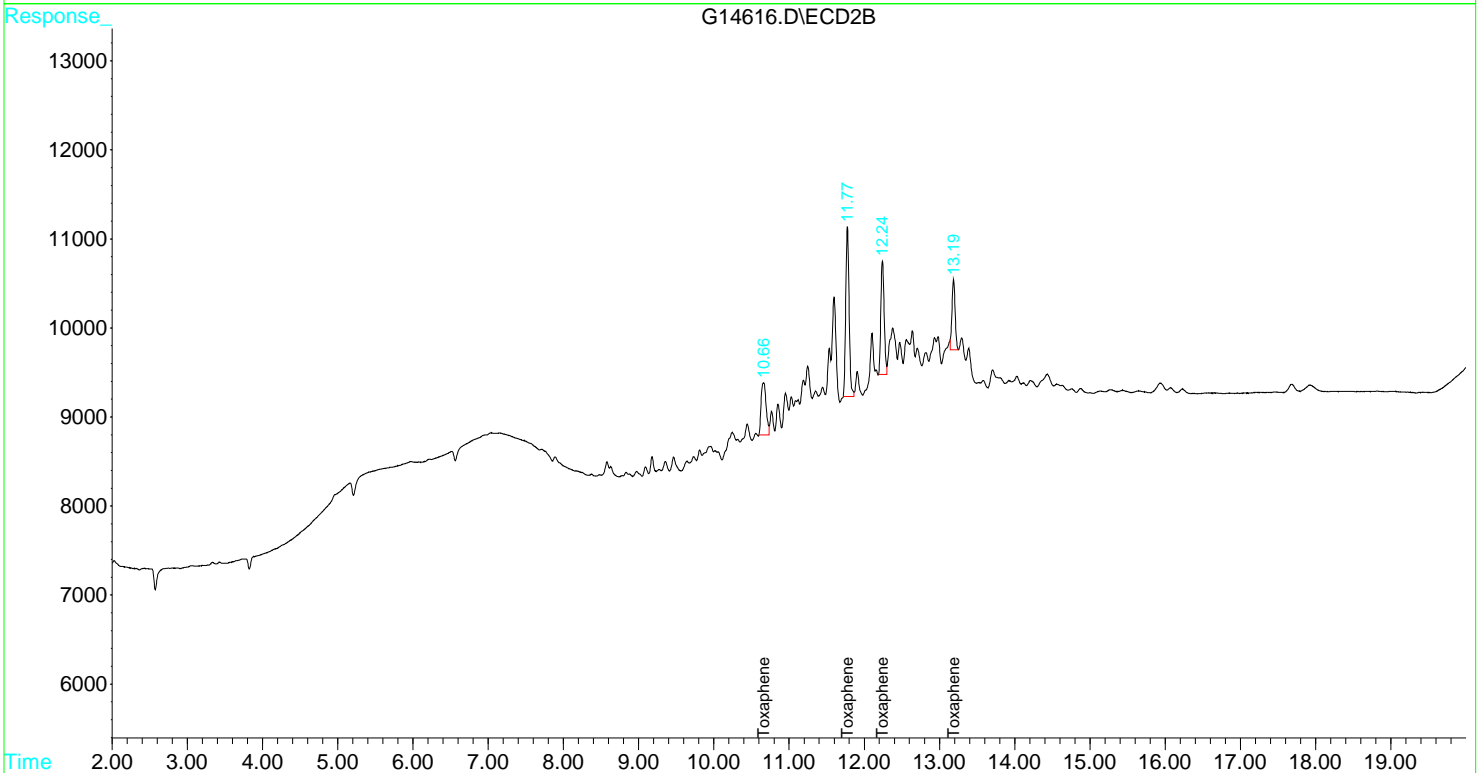
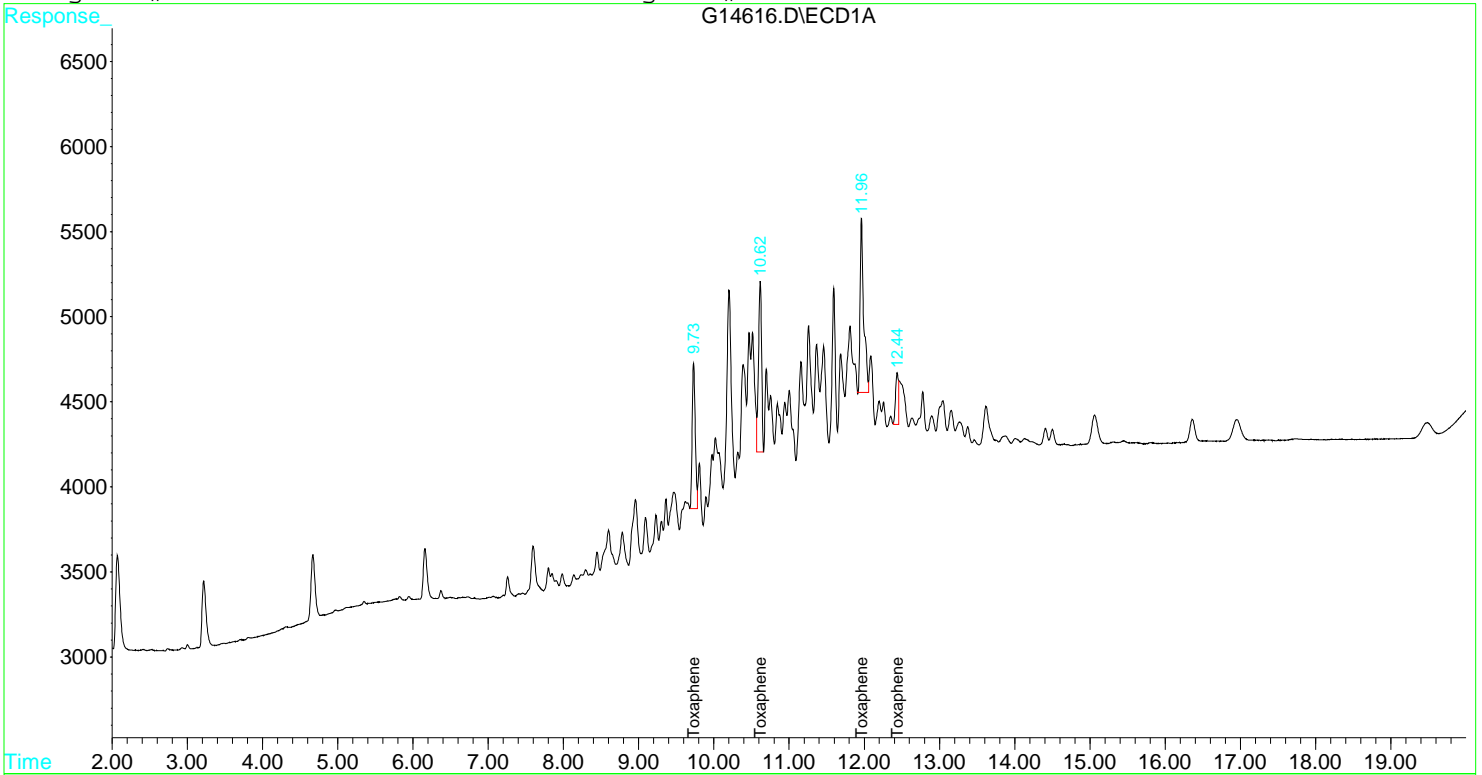
23)	Toxaphene {1}	9.73	10.66	24622	27320	0.705	1.025 #
24)	Toxaphene {2}	10.62	11.77	28710	59864	0.576	0.757 #
25)	Toxaphene {3}	11.96	12.24	34302	38844	0.466m	0.874 #
26)	Toxaphene {4}	12.44	13.19	8100	22980	0.349m	0.528 #



Signal #1 : D:\G\DATA\DEC15\G1211\G14616.D\ECD1A.CH Vial: 17  
Signal #2 : D:\G\DATA\DEC15\G1211\G14616.D\ECD2B.CH  
Acq On : 11 Dec 2015 20:21 Operator: JAM  
Sample : S5L1105-CALF Inst : GCECD\_GH  
Misc : TOXAPHENE 0.1 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:37 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)  
Title : 8081 Pesticides  
Last Update : Mon Dec 14 09:29:10 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



Signal #1 : D:\G\DATA\DEC15\G1211\G14617.D\ECD1A.CH Vial: 18  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14617.D\ECD2B.CH  
 Acq On : 11 Dec 2015 20:51 Operator: JAM  
 Sample : S5L1105-CALG Inst : GCECD\_GH  
 Misc : A1016/1260 2.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

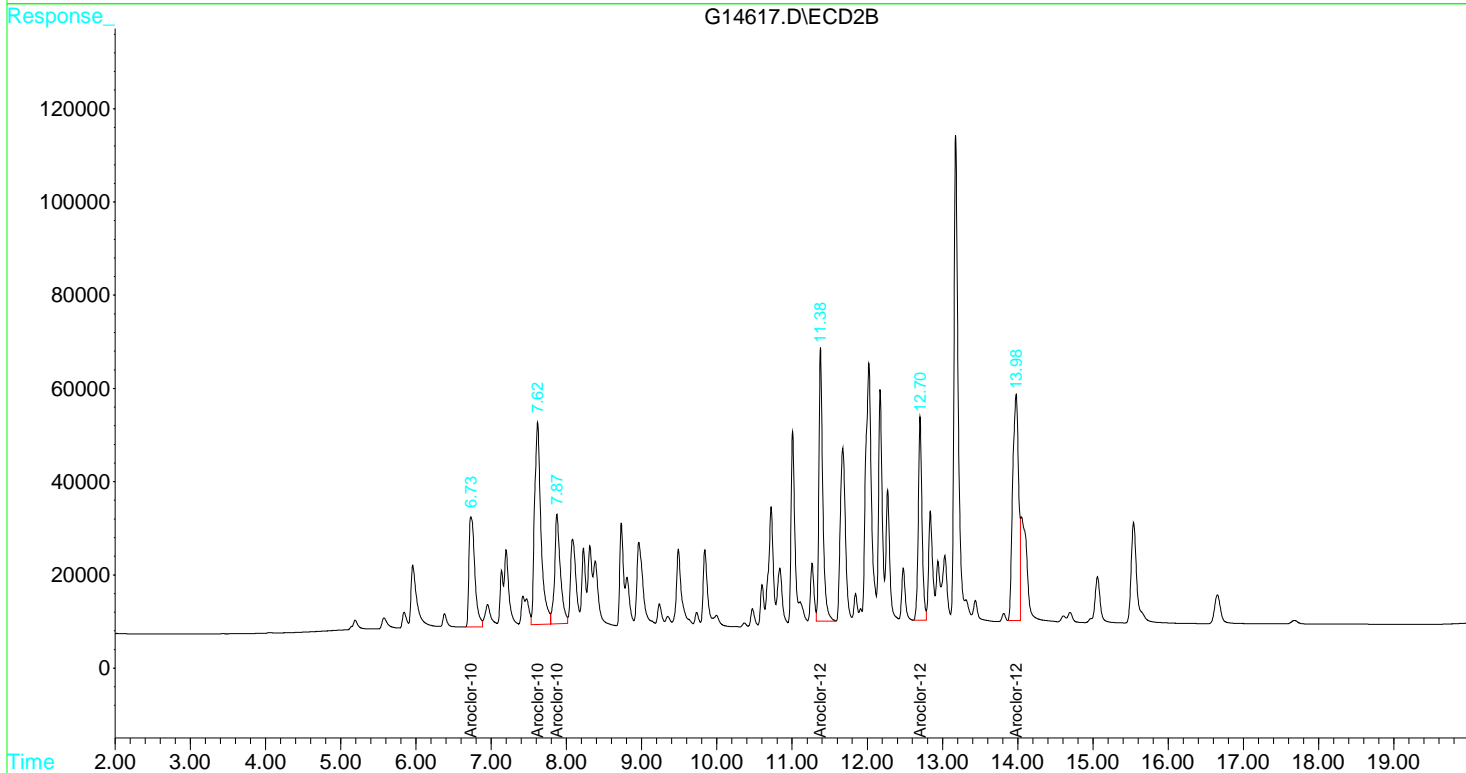
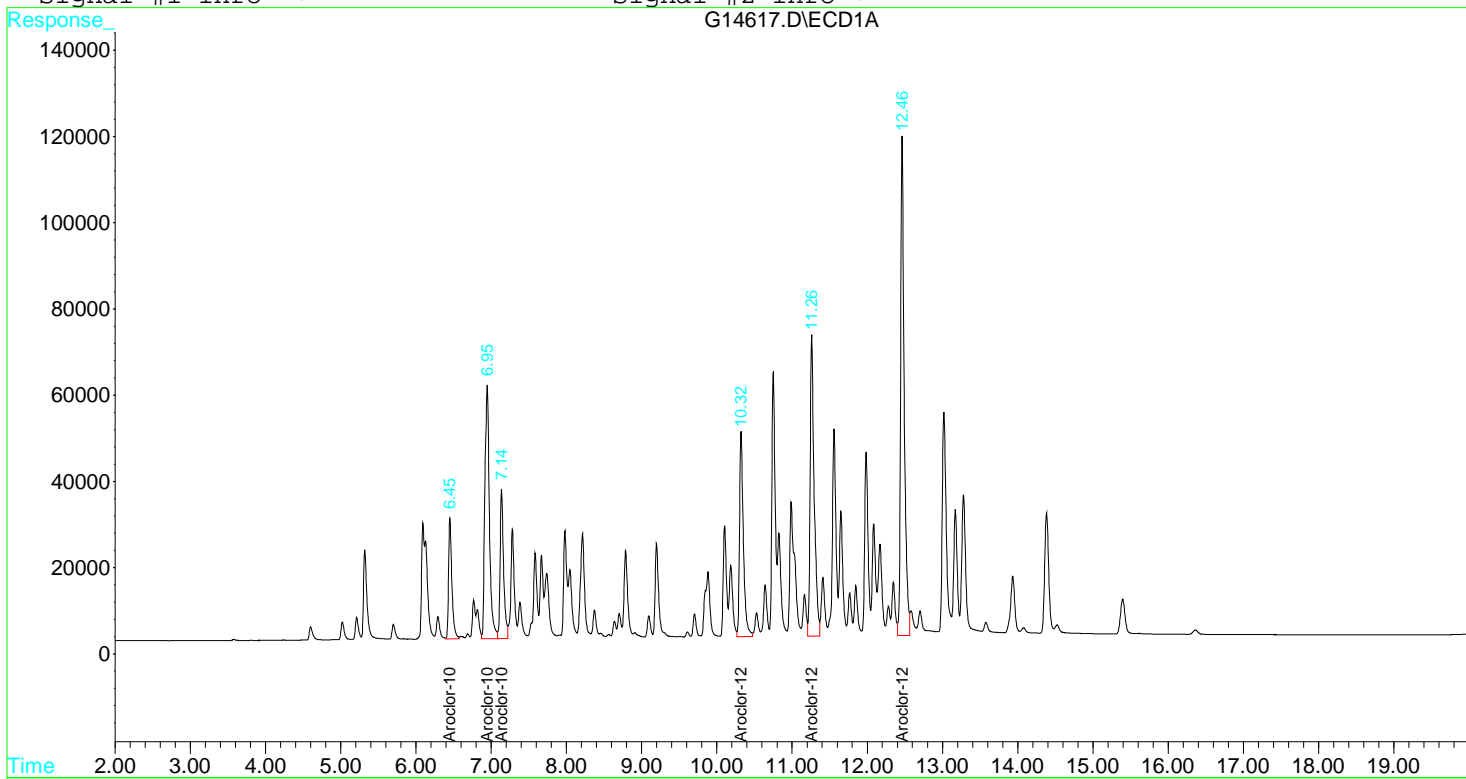
Target Compounds

2) L1 Aroclor-1016	6.45	6.73	86360	127591	27.418	26.963
3) L1 Aroclor-1016 {2}	6.95	7.62	247815	257241	28.252	30.469
4) L1 Aroclor-1016 {3}	7.14	7.87	111731	124548	27.920	31.194
20) L7 Aroclor-1260	10.32	11.38	168624	209338	24.435	24.760
21) L7 Aroclor-1260 {2}	11.26	12.70	260588	150084	26.332	25.558
22) L7 Aroclor-1260 {3}	12.46	13.98	389111	271569	26.667	27.367

Signal #1 : D:\G\DATA\DEC15\G1211\G14617.D\ECD1A.CH Vial: 18  
Signal #2 : D:\G\DATA\DEC15\G1211\G14617.D\ECD2B.CH  
Acq On : 11 Dec 2015 20:51 Operator: JAM  
Sample : S5L1105-CALG Inst : GCECD\_GH  
Misc : A1016/1260 2.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Thu Dec 10 11:19:00 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14618.D\ECD1A.CH Vial: 19  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14618.D\ECD2B.CH  
 Acq On : 11 Dec 2015 21:20 Operator: JAM  
 Sample : S5L1105-CALH Inst : GCECD\_GH  
 Misc : A1016/1260 1.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

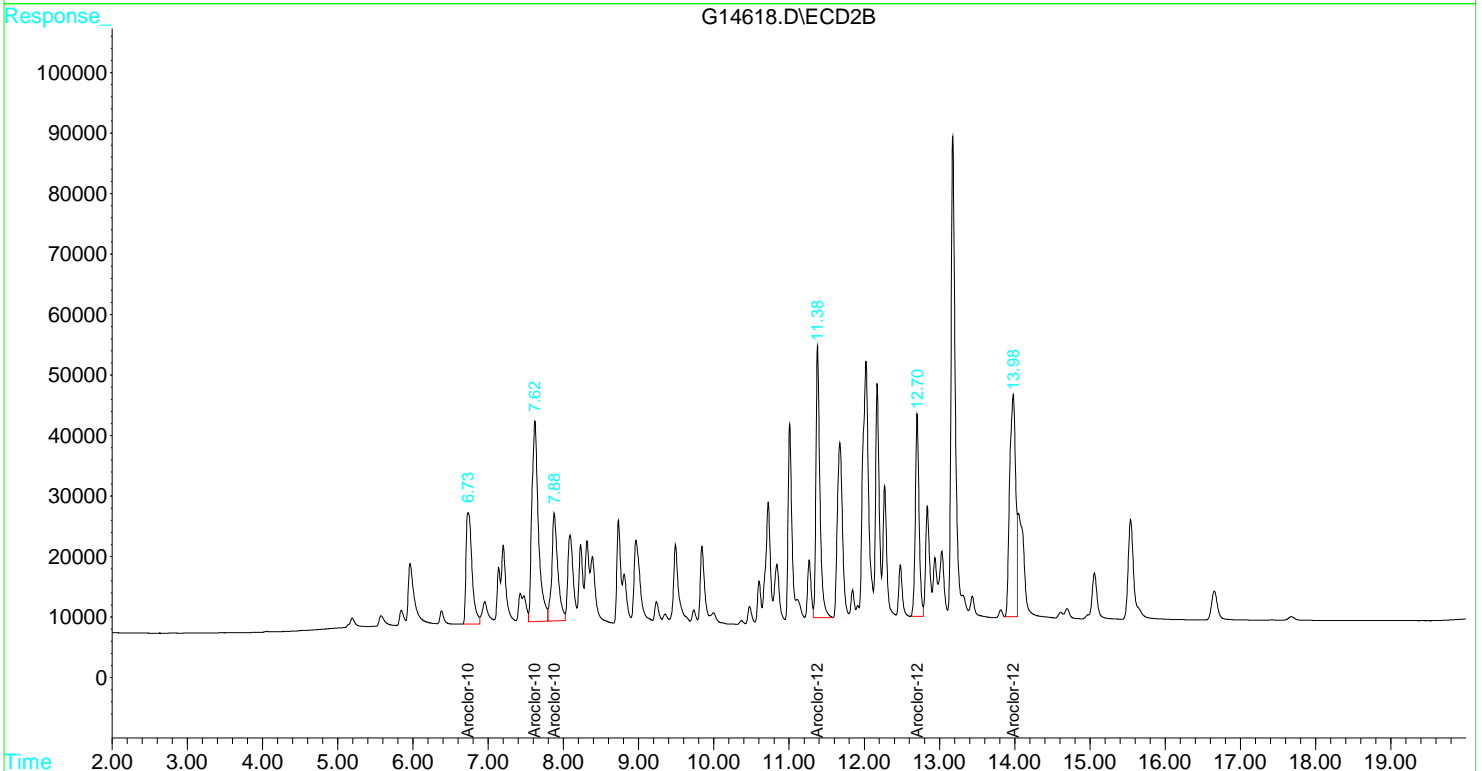
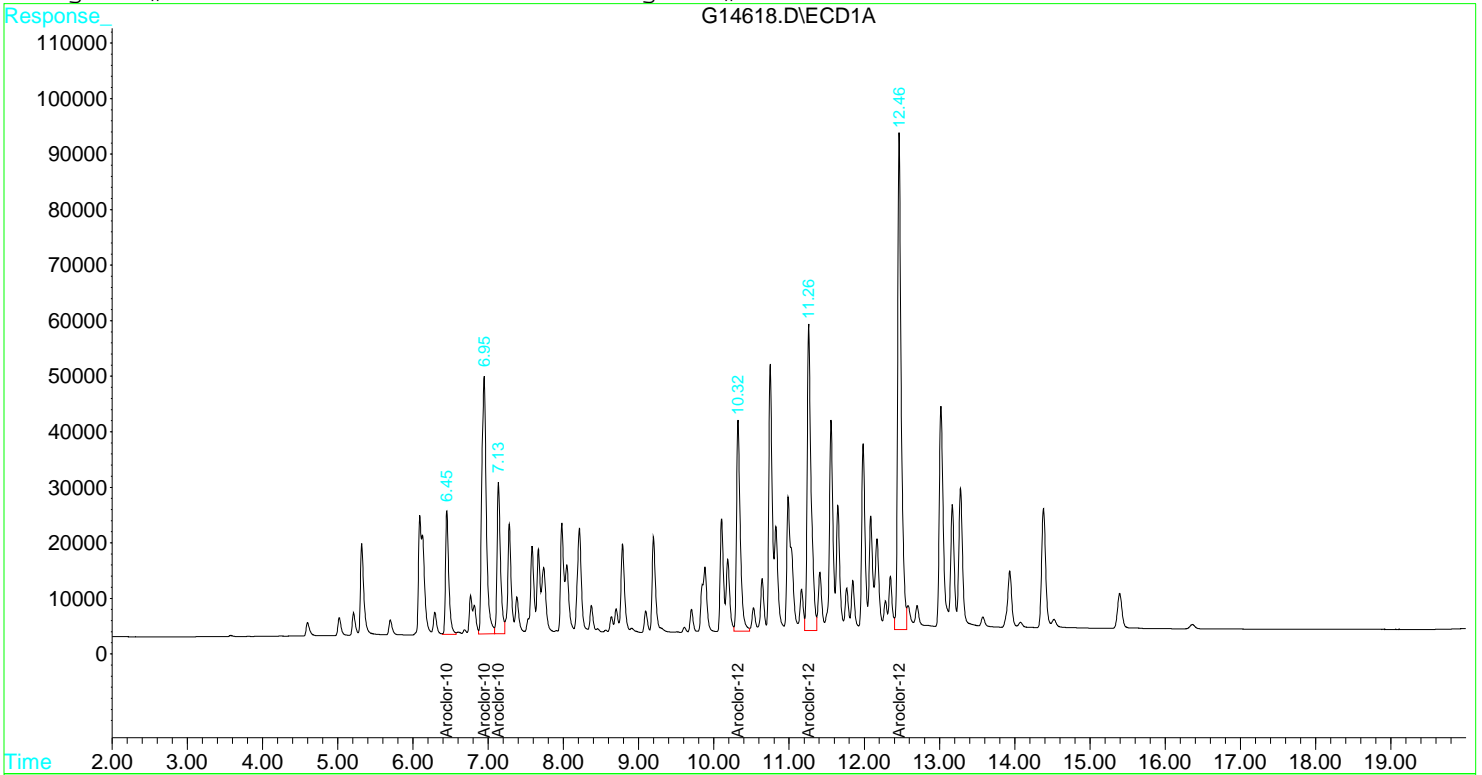
Target Compounds

2) L1 Aroclor-1016	6.45	6.73	67564	101462	21.451	21.442
3) L1 Aroclor-1016 {2}	6.95	7.62	194341	201859	22.156	23.910
4) L1 Aroclor-1016 {3}	7.13	7.88	87792	99005	21.938	24.797
20) L7 Aroclor-1260	10.32	11.38	131670	164058	19.080	19.404
21) L7 Aroclor-1260 {2}	11.26	12.70	202106	116547	20.422	19.847
22) L7 Aroclor-1260 {3}	12.46	13.98	299718	206926	20.541	20.853

Signal #1 : D:\G\DATA\DEC15\G1211\G14618.D\ECD1A.CH Vial: 19  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14618.D\ECD2B.CH  
 Acq On : 11 Dec 2015 21:20 Operator: JAM  
 Sample : S5L1105-CALH Inst : GCECD\_GH  
 Misc : A1016/1260 1.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14619.D\ECD1A.CH Vial: 20  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14619.D\ECD2B.CH  
 Acq On : 11 Dec 2015 21:49 Operator: JAM  
 Sample : S5L1105-CALI Inst : GCECD\_GH  
 Misc : A1016/1260 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:49 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

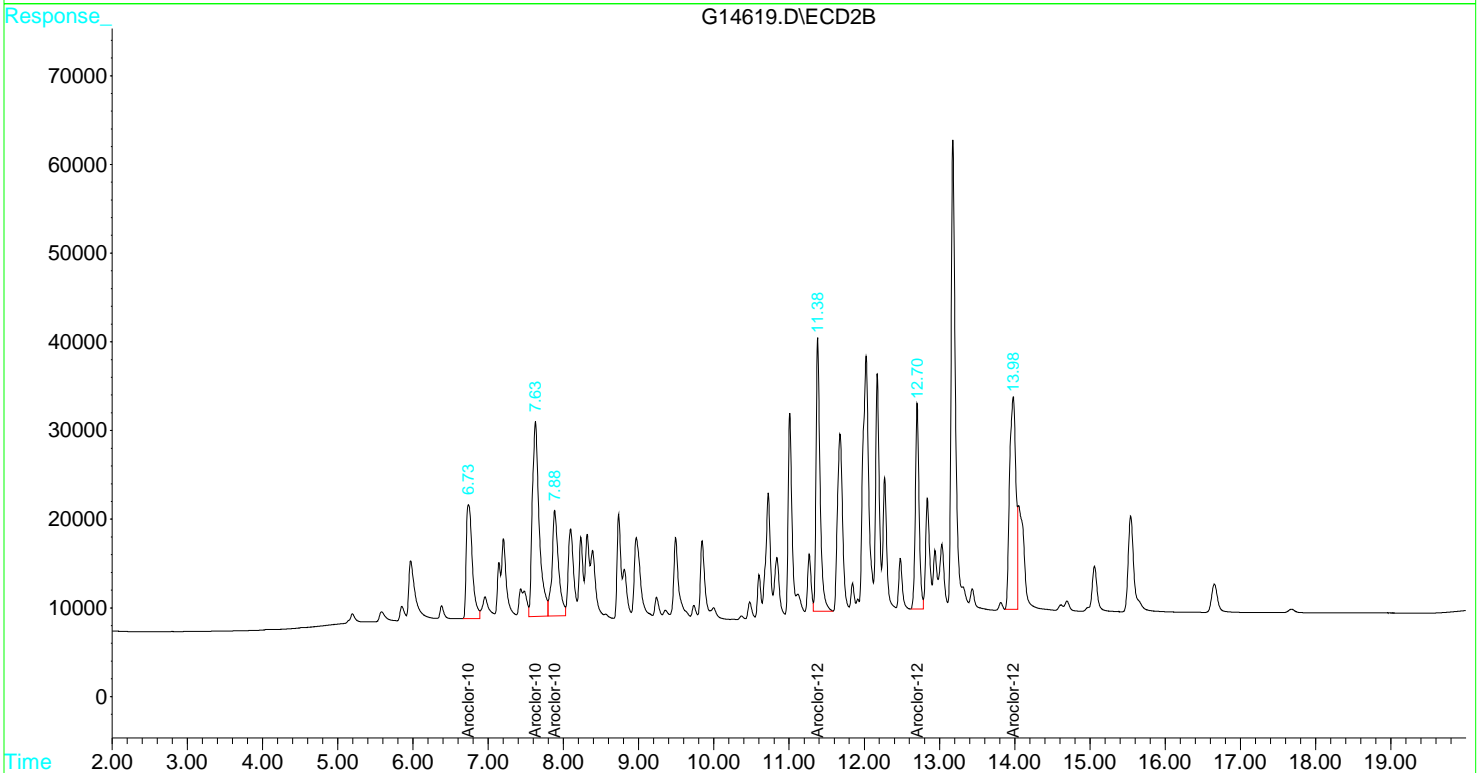
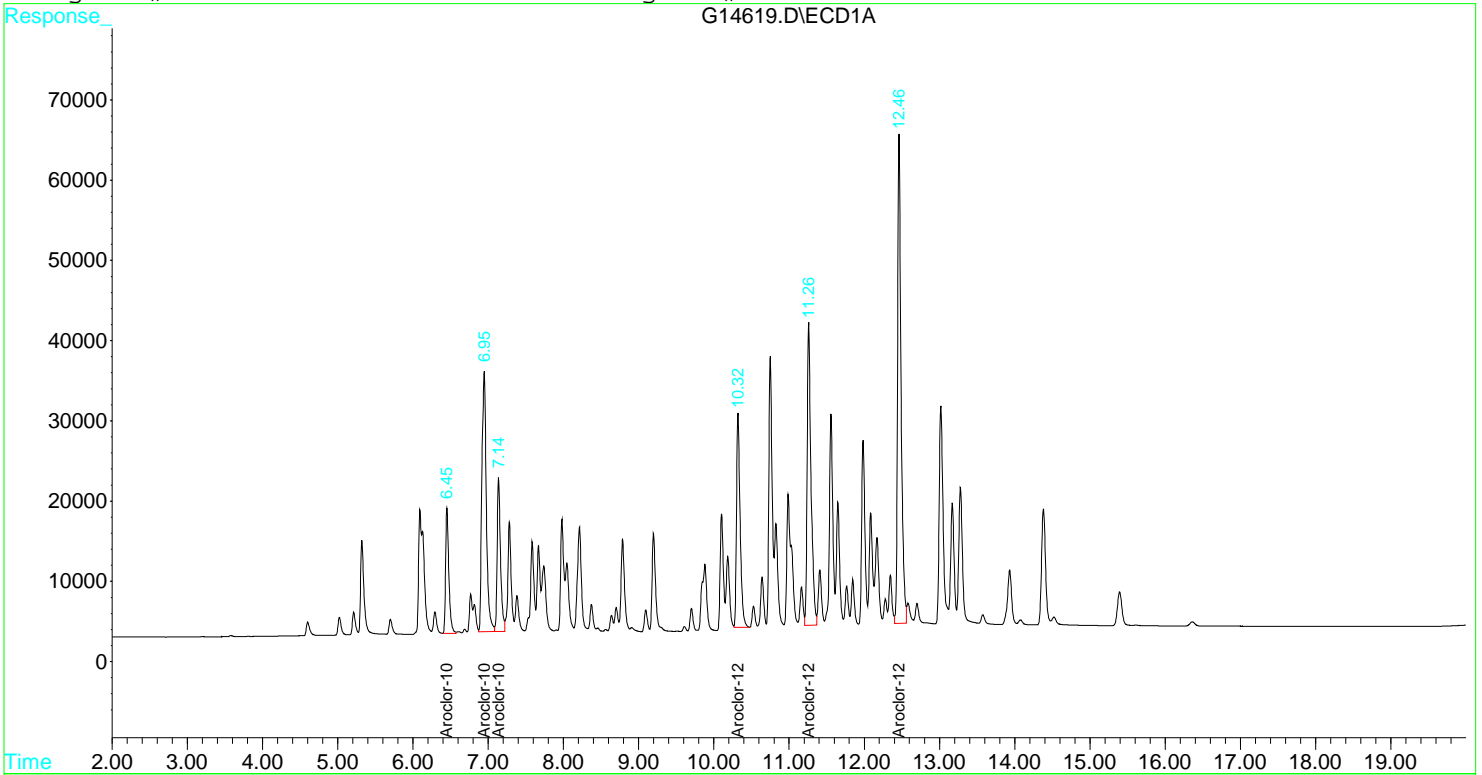
Target Compounds

2) L1 Aroclor-1016	6.45	6.73	46890	71830	14.887	15.180
3) L1 Aroclor-1016 {2}	6.95	7.63	134161	140840	15.295	16.682
4) L1 Aroclor-1016 {3}	7.14	7.88	60126	70504	15.024	17.658
20) L7 Aroclor-1260	10.32	11.38	88808	114365	12.869	13.527
21) L7 Aroclor-1260 {2}	11.26	12.70	135067	80248	13.648	13.665
22) L7 Aroclor-1260 {3}	12.46	13.98	198218	141023	13.585	14.211

Signal #1 : D:\G\DATA\DEC15\G1211\G14619.D\ECD1A.CH Vial: 20  
Signal #2 : D:\G\DATA\DEC15\G1211\G14619.D\ECD2B.CH  
Acq On : 11 Dec 2015 21:49 Operator: JAM  
Sample : S5L1105-CALI Inst : GCECD\_GH  
Misc : A1016/1260 1.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:49 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Thu Dec 10 11:19:00 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14620.D\ECD1A.CH Vial: 21  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14620.D\ECD2B.CH  
 Acq On : 11 Dec 2015 22:18 Operator: JAM  
 Sample : S5L1105-CALJ Inst : GCECD\_GH  
 Misc : A1016/1260 0.5 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:50 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

Target Compounds

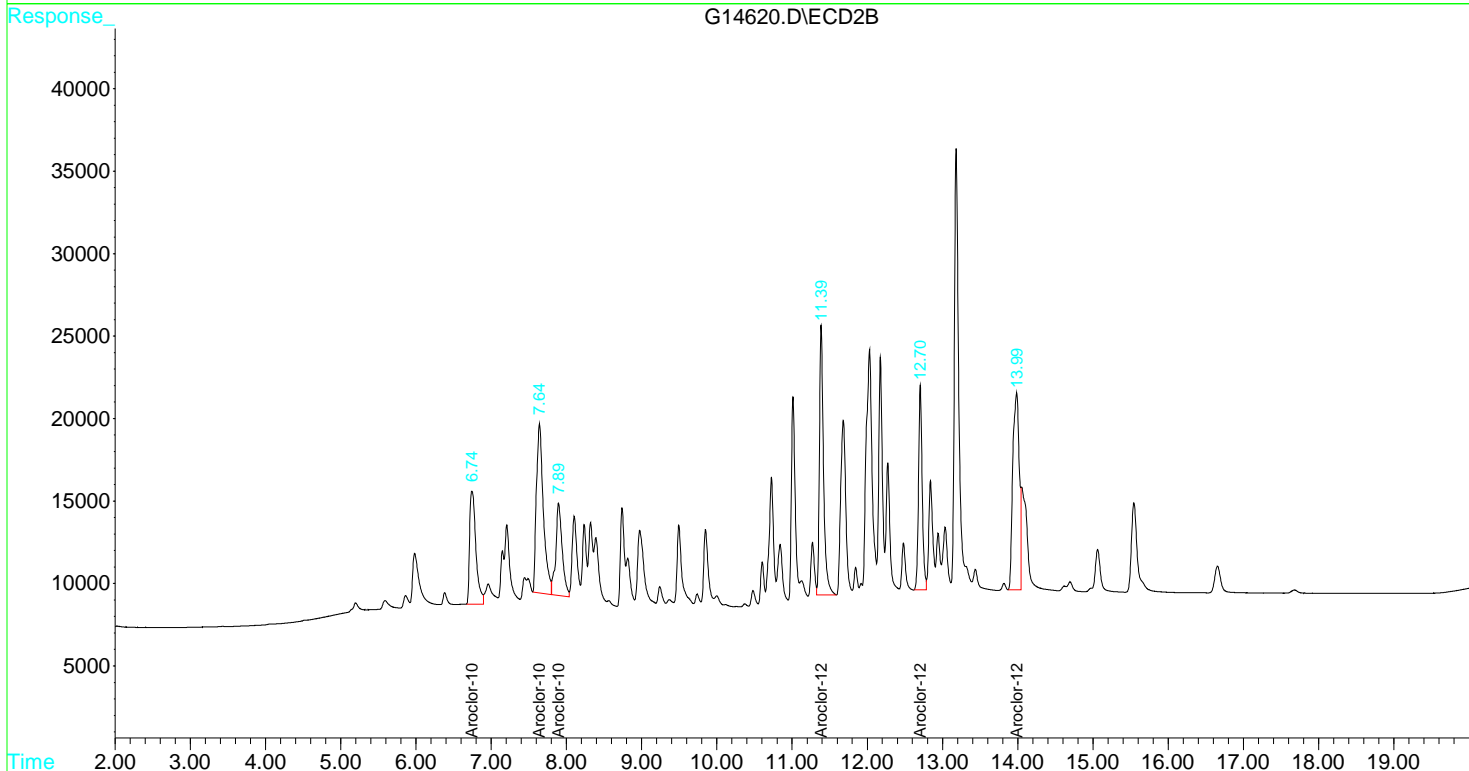
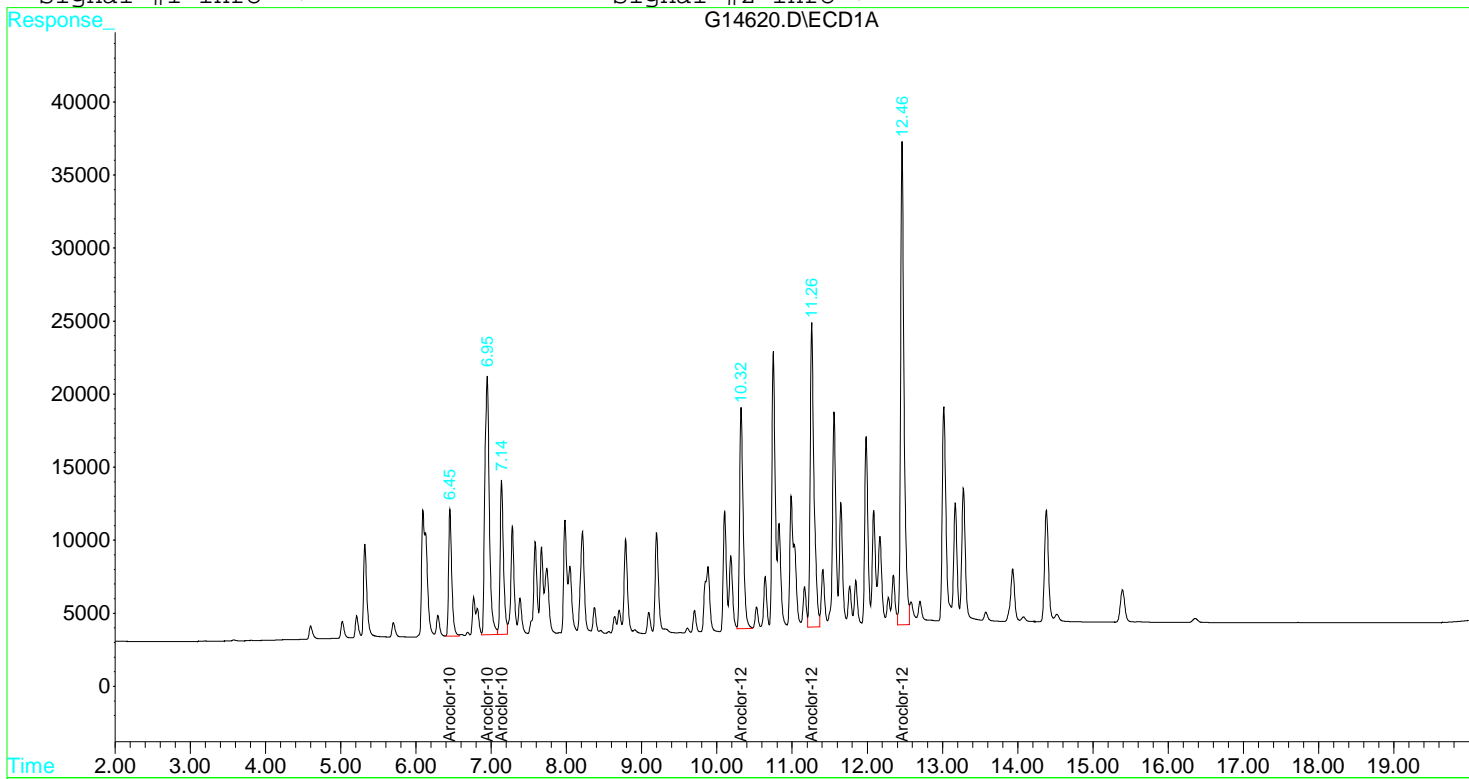
2) L1 Aroclor-1016	6.45	6.74	25398	39593	8.064	8.367
3) L1 Aroclor-1016 {2}	6.95	7.64	73275	66658	8.354	7.895
4) L1 Aroclor-1016 {3}	7.14	7.89	32935	33046	8.230	8.277
20) L7 Aroclor-1260	10.32	11.39	50229	61726	7.279	7.301
21) L7 Aroclor-1260 {2}	11.26	12.70	73988	42415	7.476	7.223
22) L7 Aroclor-1260 {3}	12.46	13.99	106517	72278	7.300	7.284



Signal #1 : D:\G\DATA\DEC15\G1211\G14620.D\ECD1A.CH Vial: 21  
Signal #2 : D:\G\DATA\DEC15\G1211\G14620.D\ECD2B.CH  
Acq On : 11 Dec 2015 22:18 Operator: JAM  
Sample : S5L1105-CALJ Inst : GCECD\_GH  
Misc : A1016/1260 0.5 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:50 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Thu Dec 10 11:19:00 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14621.D\ECD1A.CH Vial: 22  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14621.D\ECD2B.CH  
 Acq On : 11 Dec 2015 22:47 Operator: JAM  
 Sample : S5L1105-CALK Inst : GCECD\_GH  
 Misc : A1016/1260 0.1 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:51 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

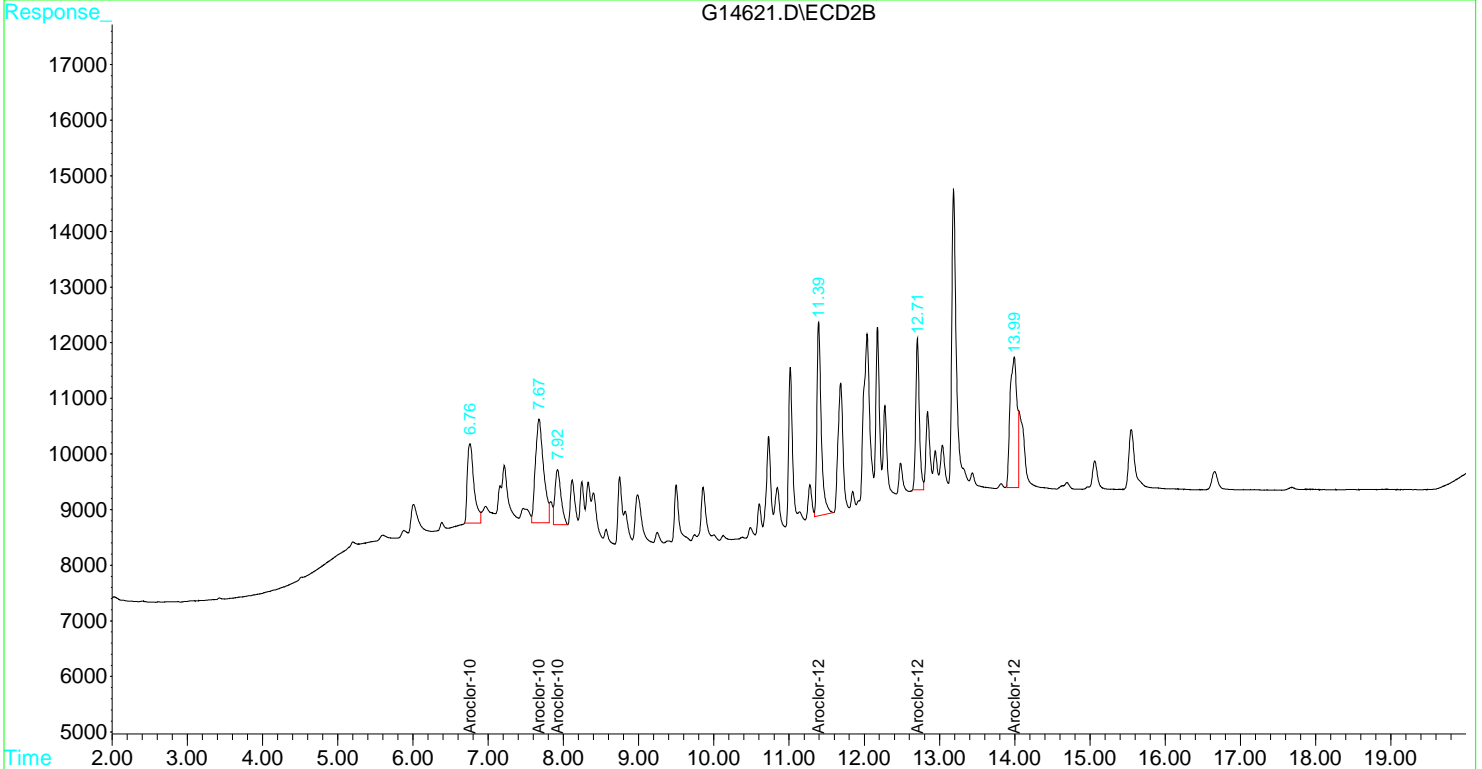
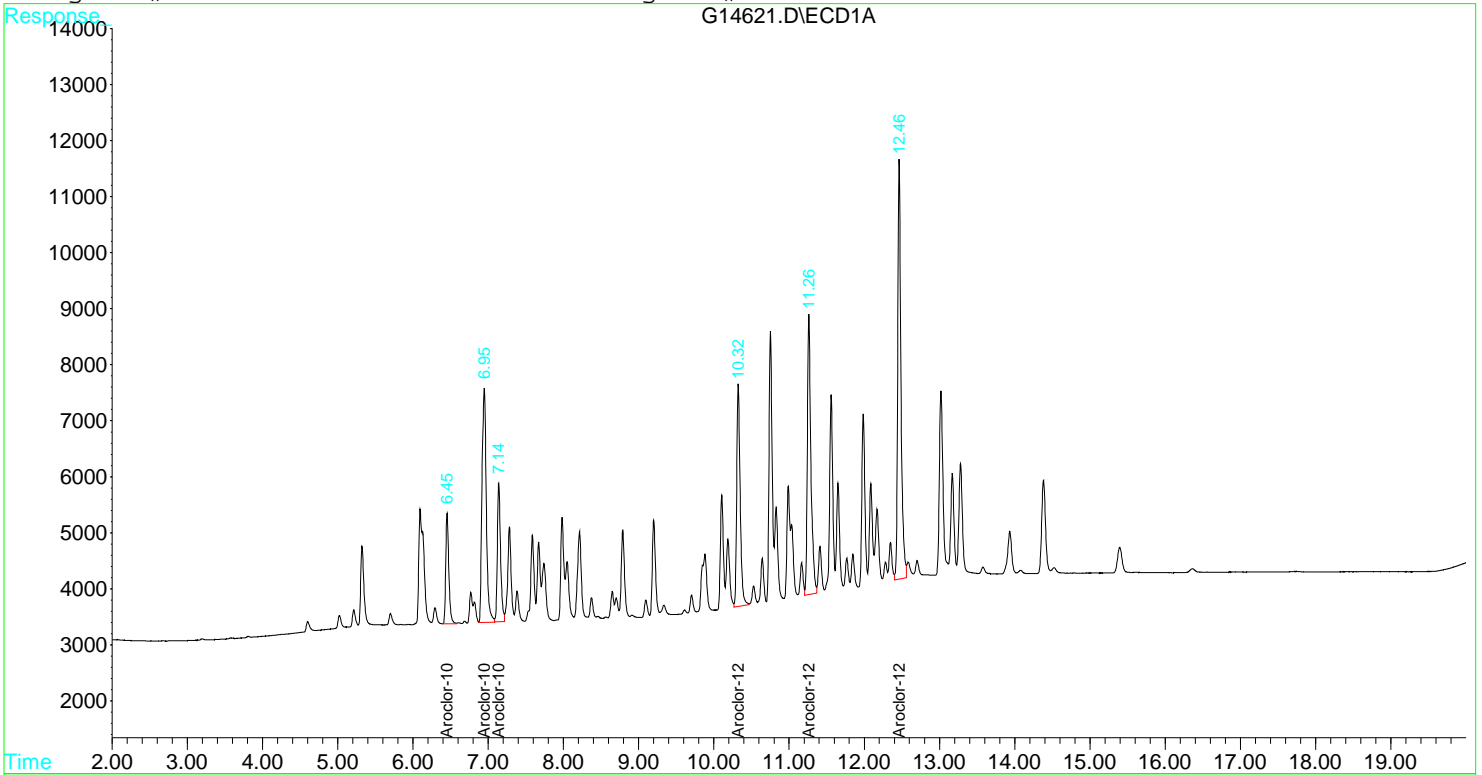
Target Compounds

2) L1 Aroclor-1016	6.45	6.76	5643	8789	1.792	1.857
3) L1 Aroclor-1016 {2}	6.95	7.67f	16676	14139	1.901	1.675m
4) L1 Aroclor-1016 {3}	7.14	7.92f	7462	5437	1.865	1.362 #
20) L7 Aroclor-1260	10.32	11.39	12679	13821	1.837	1.635
21) L7 Aroclor-1260 {2}	11.26	12.71	16512	9099	1.668	1.549
22) L7 Aroclor-1260 {3}	12.46	13.99	22568	15226	1.547	1.534m

Signal #1 : D:\G\DATA\DEC15\G1211\G14621.D\ECD1A.CH Vial: 22  
Signal #2 : D:\G\DATA\DEC15\G1211\G14621.D\ECD2B.CH  
Acq On : 11 Dec 2015 22:47 Operator: JAM  
Sample : S5L1105-CALK Inst : GCECD\_GH  
Misc : A1016/1260 0.1 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:51 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Thu Dec 10 11:19:00 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14622.D\ECD1A.CH Vial: 23  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14622.D\ECD2B.CH  
 Acq On : 11 Dec 2015 23:16 Operator: JAM  
 Sample : S5L1105-ARC1 Inst : GCECD\_GH  
 Misc : A1221/1254 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:53 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Thu Dec 10 11:19:00 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

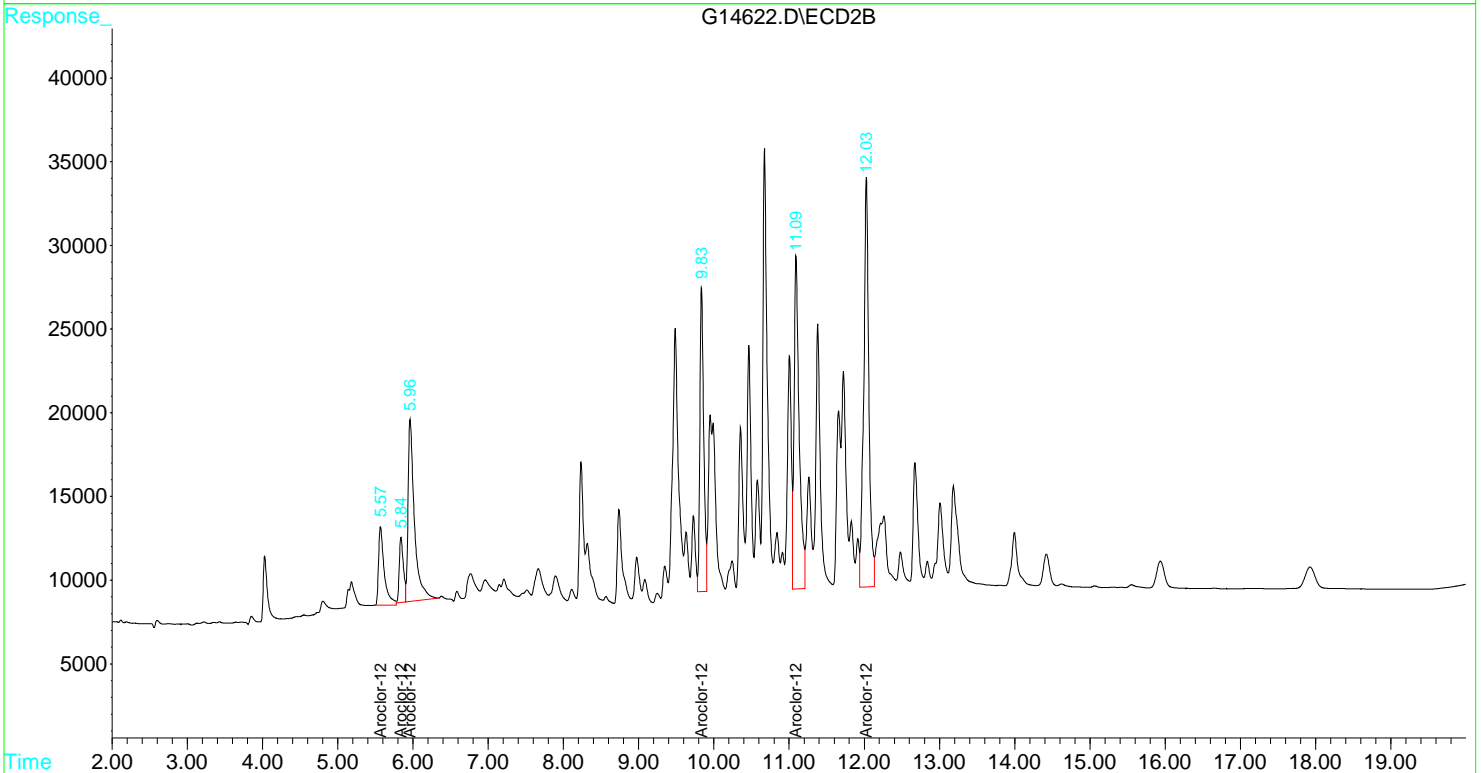
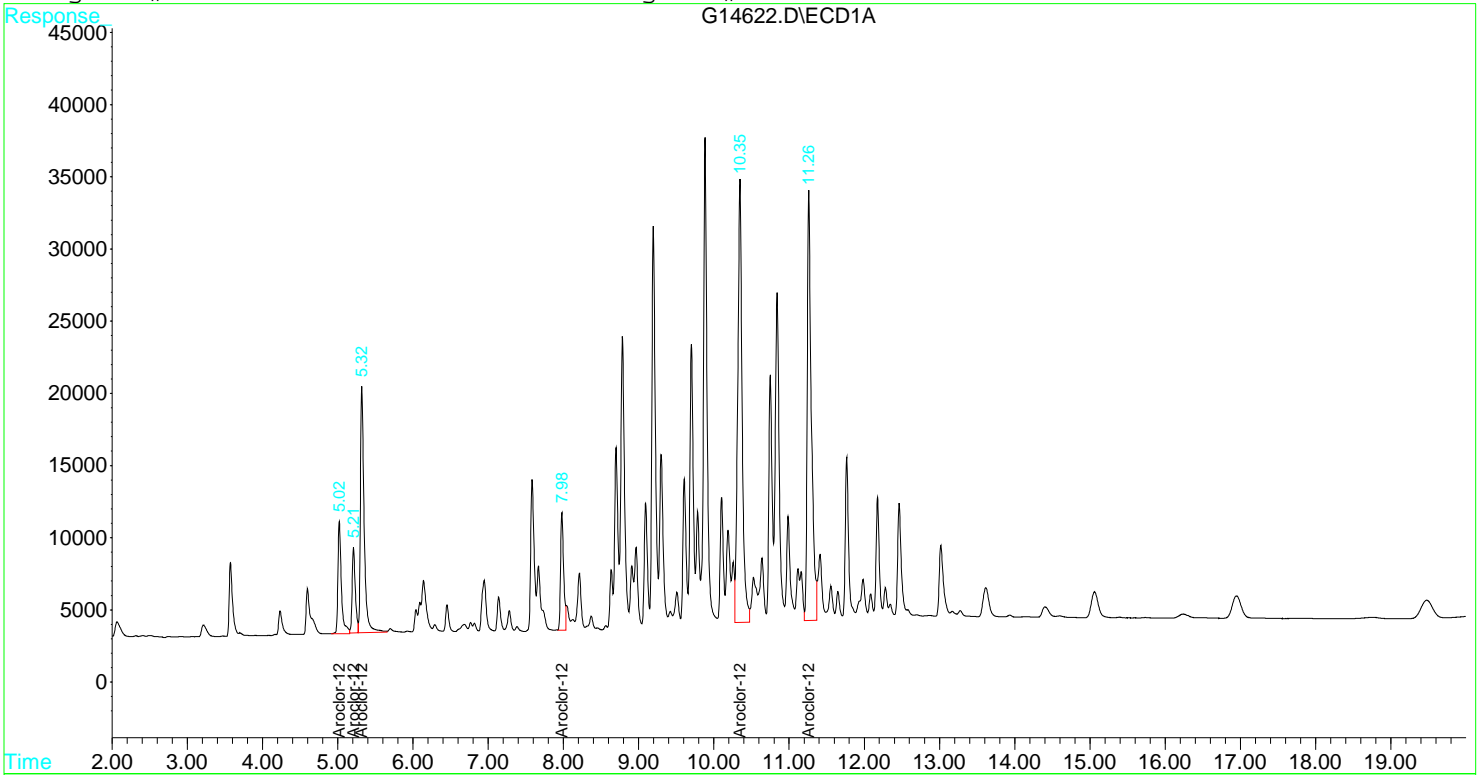
Target Compounds

5) L2 Aroclor-1221	5.02	5.57	24891	24766	17.260	17.910
6) L2 Aroclor-1221 {2}	5.21	5.84	17538	14873	16.608	16.112
7) L2 Aroclor-1221 {3}	5.32	5.96	58633	63661	15.585	16.690
17) L6 Aroclor-1254	7.98	9.83	23580	65364	13.541	14.352
18) L6 Aroclor-1254 {2}	10.35	11.09	126061	92810	15.305	14.156
19) L6 Aroclor-1254 {3}	11.26	12.03	115305	116343	15.266	14.876

Signal #1 : D:\G\DATA\DEC15\G1211\G14622.D\ECD1A.CH Vial: 23  
Signal #2 : D:\G\DATA\DEC15\G1211\G14622.D\ECD2B.CH  
Acq On : 11 Dec 2015 23:16 Operator: JAM  
Sample : S5L1105-ARC1 Inst : GCECD\_GH  
Misc : A1221/1254 1.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:53 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Thu Dec 10 11:19:00 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14623.D\ECD1A.CH Vial: 24  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14623.D\ECD2B.CH  
 Acq On : 11 Dec 2015 23:46 Operator: JAM  
 Sample : S5L1105-ARC2 Inst : GCECD\_GH  
 Misc : A1232/1262 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 9:56 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 09:55:35 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

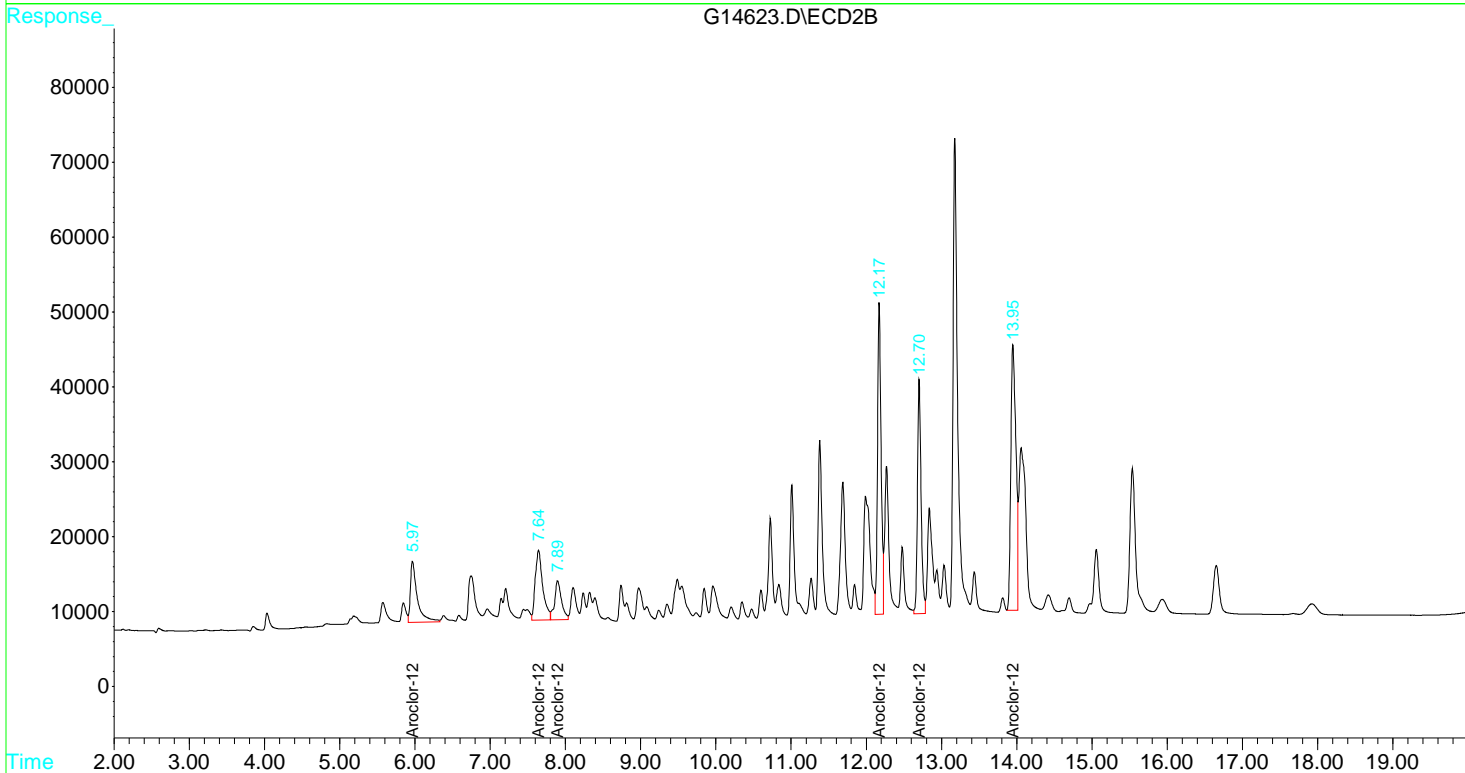
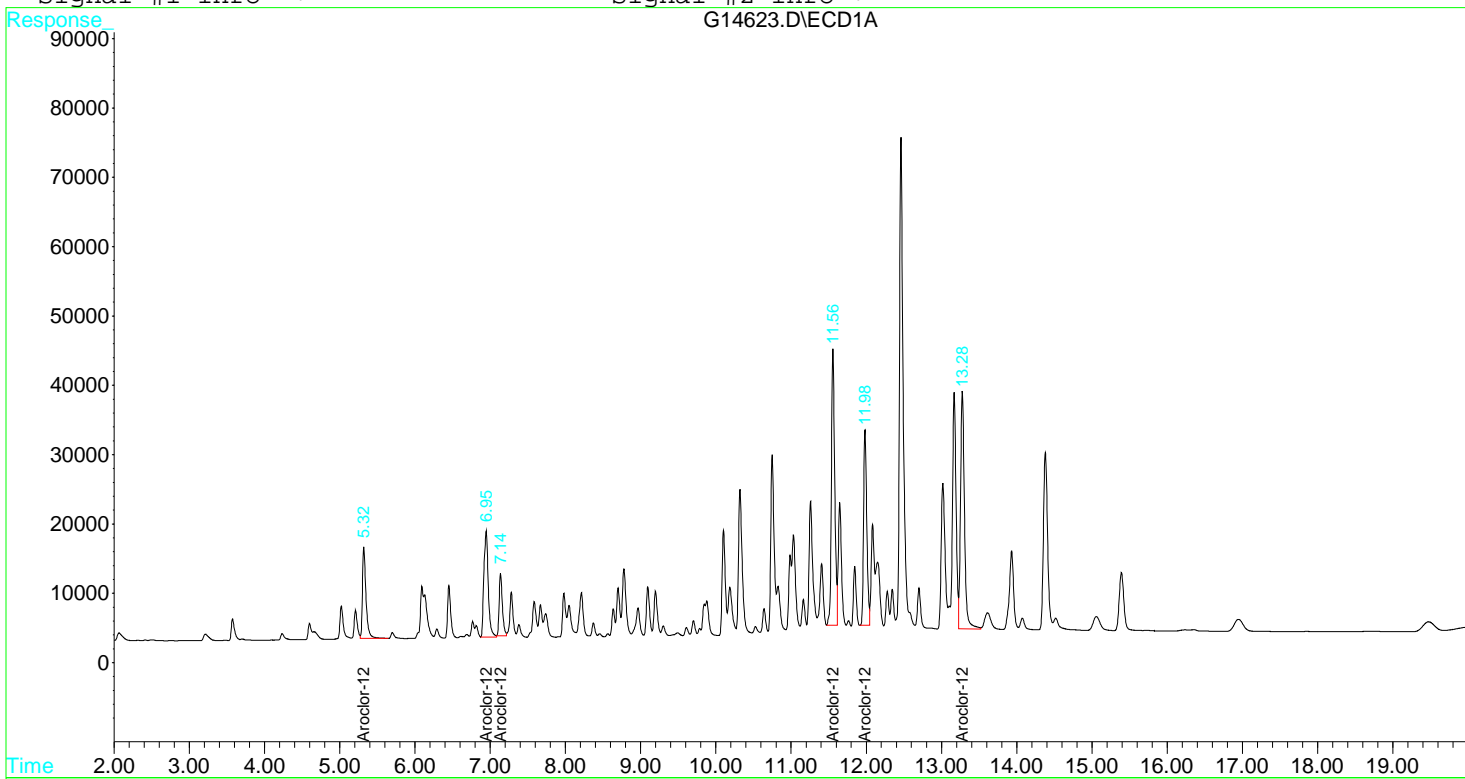
Target Compounds

8) L3 Aroclor-1232	5.32	5.97	42765	51328	23.379	30.055 #
9) L3 Aroclor-1232 {2}	6.95	7.64	61639	64748	10.013	10.055
10) L3 Aroclor-1232 {3}	7.14	7.89	26650	33065	9.543	11.112
23) L8 Aroclor-1262	11.56	12.17	123482	137995	26.163	25.835
24) L8 Aroclor-1262 {2}	11.98	12.70	83848	105205	4.836	5.613
25) L8 Aroclor-1262 {3}	13.28	13.95	125071	169845	2.296	2.865

Signal #1 : D:\G\DATA\DEC15\G1211\G14623.D\ECD1A.CH Vial: 24  
Signal #2 : D:\G\DATA\DEC15\G1211\G14623.D\ECD2B.CH  
Acq On : 11 Dec 2015 23:46 Operator: JAM  
Sample : S5L1105-ARC2 Inst : GCECD\_GH  
Misc : A1232/1262 1.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 9:56 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 09:55:35 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14624.D\ECD1A.CH Vial: 25  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14624.D\ECD2B.CH  
 Acq On : 12 Dec 2015 00:15 Operator: JAM  
 Sample : S5L1105-ARC3 Inst : GCECD\_GH  
 Misc : A1242/1268 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 10:04 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 09:55:35 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

Target Compounds

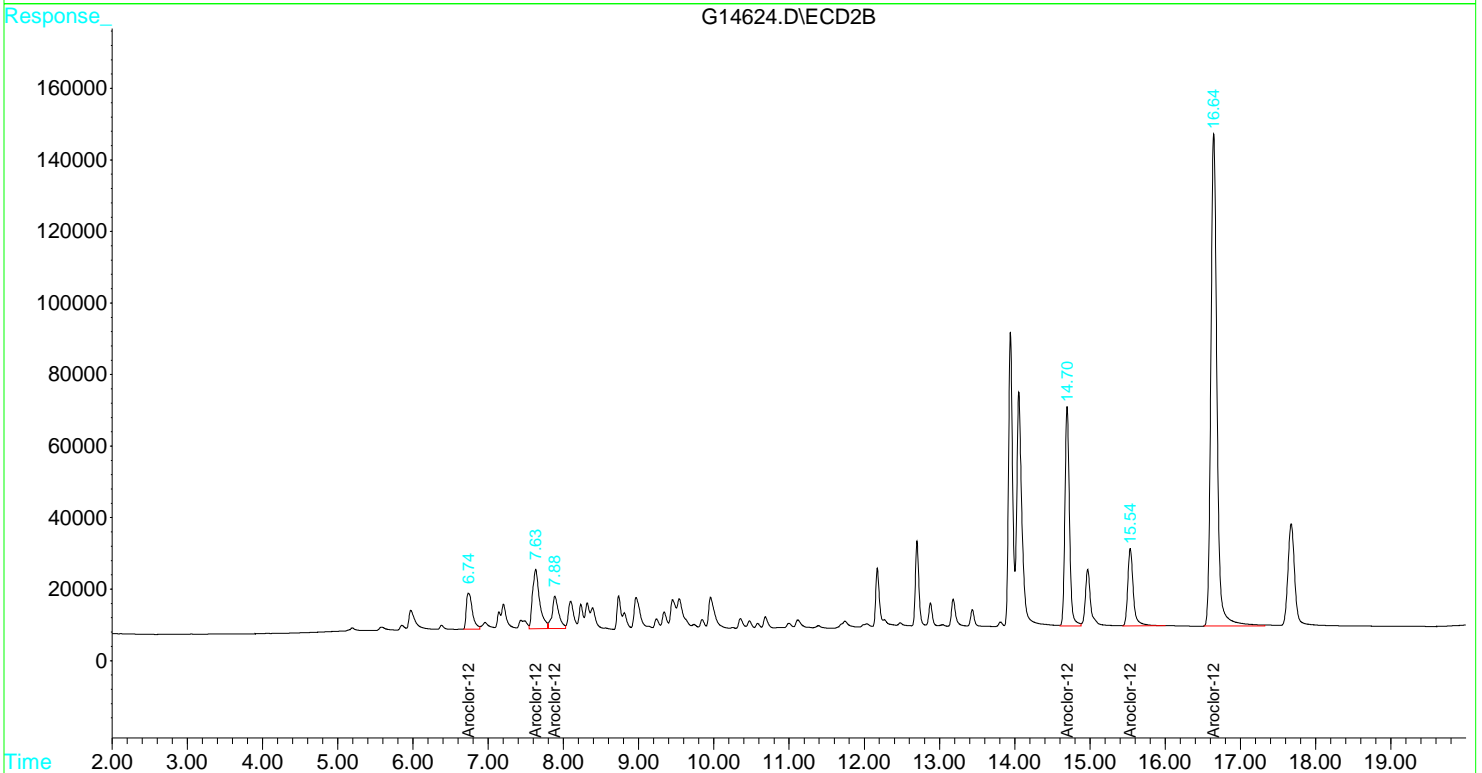
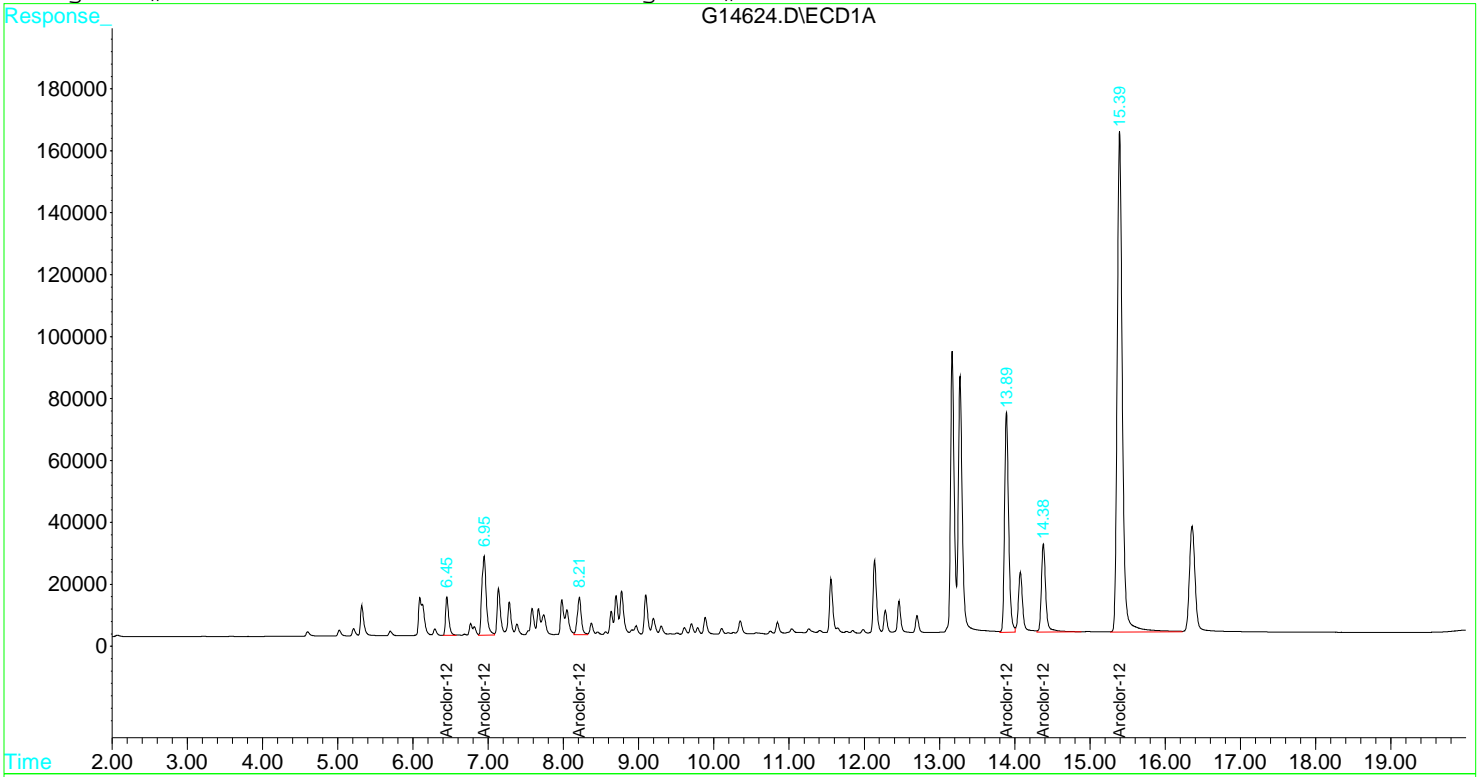
11) L4 Aroclor-1242	6.45	6.74	36754	56537	25.444	24.934
12) L4 Aroclor-1242 {2}	6.95	7.63	105389	109060	26.861	28.905
13) L4 Aroclor-1242 {3}	8.21	7.88	43201	55029	32.634	30.141
26) L9 Aroclor-1268	13.89	14.70	268139	258426	59.836	32.905 #
27) L9 Aroclor-1268 {2}	14.38	15.54	115480	109704	6.906	5.677
28) L9 Aroclor-1268 {3}	15.39	16.64	779242	772317	121.819	100.093



Signal #1 : D:\G\DATA\DEC15\G1211\G14624.D\ECD1A.CH Vial: 25  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14624.D\ECD2B.CH  
 Acq On : 12 Dec 2015 00:15 Operator: JAM  
 Sample : S5L1105-ARC3 Inst : GCECD\_GH  
 Misc : A1242/1268 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 10:04 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 09:55:35 2015  
 Response via : Multiple Level Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :



Signal #1 : D:\G\DATA\DEC15\G1211\G14625.D\ECD1A.CH Vial: 26  
 Signal #2 : D:\G\DATA\DEC15\G1211\G14625.D\ECD2B.CH  
 Acq On : 12 Dec 2015 00:44 Operator: JAM  
 Sample : S5L1105-ARC4 Inst : GCECD\_GH  
 Misc : A1248 1.0 PPM Multiplr: 1.00  
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
 Quant Time: Dec 14 10:05 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
 Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
 Last Update : Mon Dec 14 09:55:35 2015  
 Response via : Initial Calibration  
 DataAcq Meth : PG81211.M

Volume Inj. :  
 Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

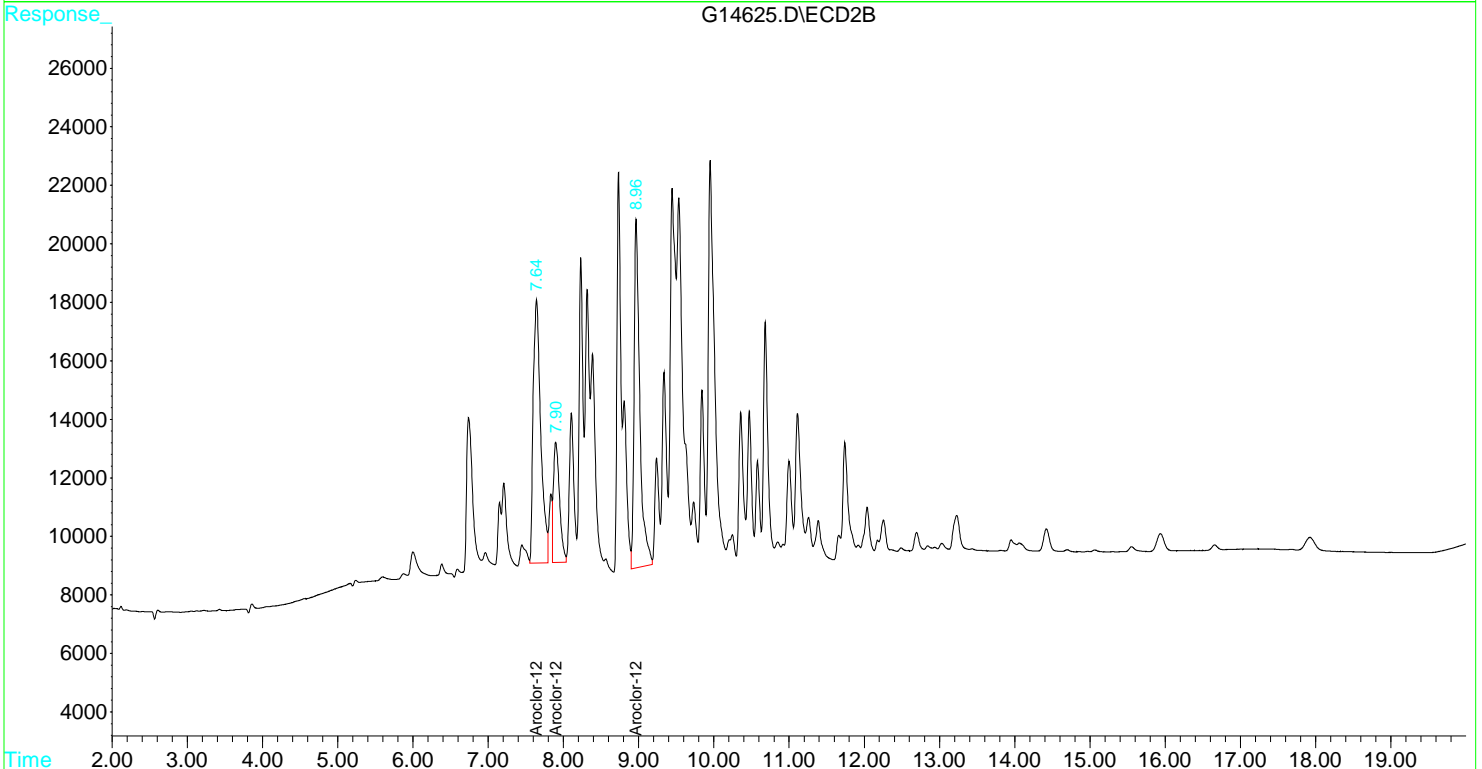
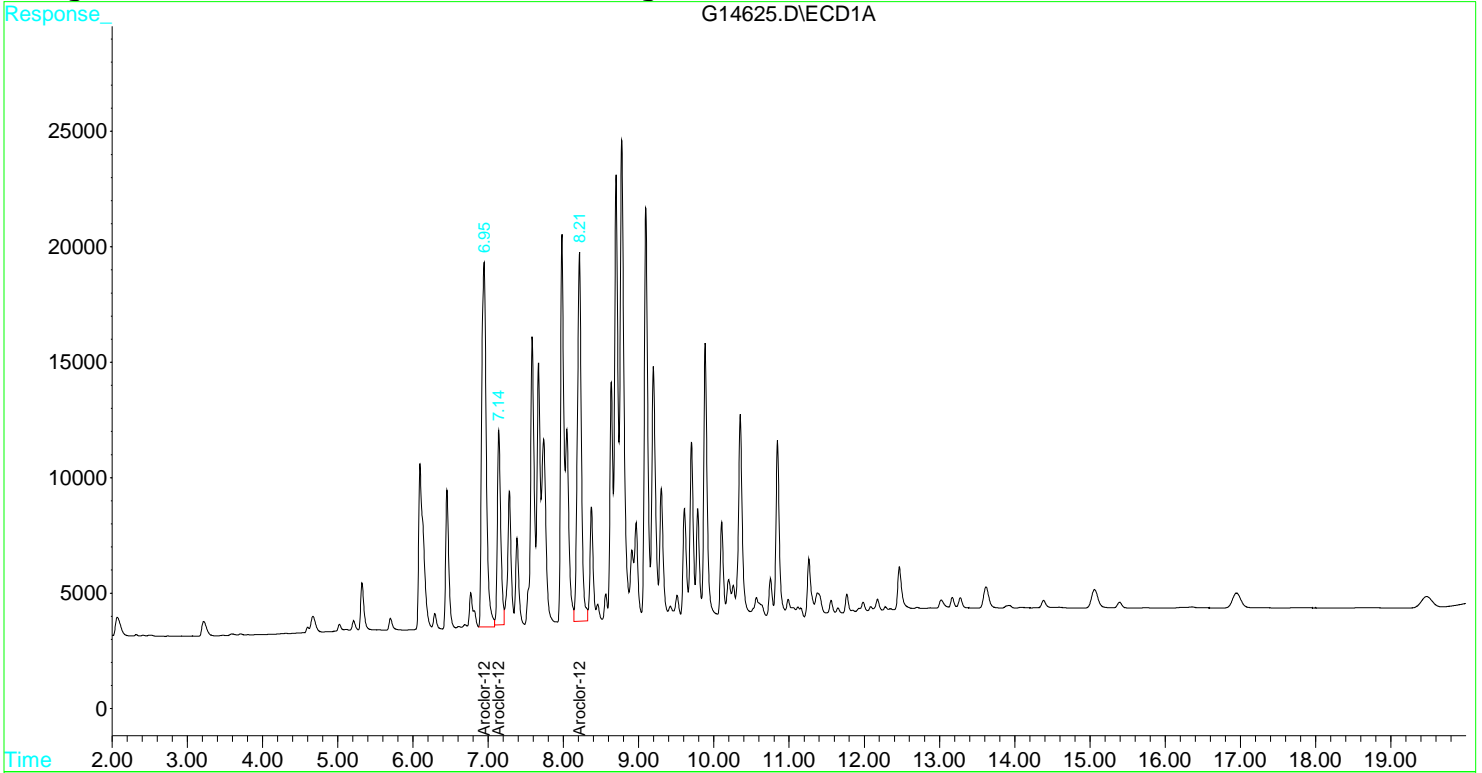
Target Compounds

14) L5 Aroclor-1248	6.95	7.64	67168	62830	15.031	14.704
15) L5 Aroclor-1248 {2}	7.14	7.90	26763	22913	14.734	12.368
16) L5 Aroclor-1248 {3}	8.21	8.96	58184	62754	14.461	15.143

Signal #1 : D:\G\DATA\DEC15\G1211\G14625.D\ECD1A.CH Vial: 26  
Signal #2 : D:\G\DATA\DEC15\G1211\G14625.D\ECD2B.CH  
Acq On : 12 Dec 2015 00:44 Operator: JAM  
Sample : S5L1105-ARC4 Inst : GCECD\_GH  
Misc : A1248 1.0 PPM Multiplr: 1.00  
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P  
Quant Time: Dec 14 10:05 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)  
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082  
Last Update : Mon Dec 14 09:55:35 2015  
Response via : Multiple Level Calibration  
DataAcq Meth : PG81211.M

Volume Inj. :  
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII  
Signal #1 Info : Signal #2 Info :



# SEMIVOLATILES

# SEMIVOLATILES SAMPLE DATA



## ANALYSIS DATA SHEET

### EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	46.7	234	U
108-95-2	Phenol	ND	46.7	234	U
111-44-4	bis(2-chloroethyl)ether	ND	46.7	234	U
95-57-8	2-Chlorophenol	ND	46.7	234	U
541-73-1	1,3-Dichlorobenzene	ND	46.7	234	U
106-46-7	1,4-Dichlorobenzene	ND	46.7	234	U
100-51-6	Benzyl alcohol	ND	46.7	234	U
95-50-1	1,2-Dichlorobenzene	ND	46.7	234	U
95-48-7	2-Methylphenol	ND	46.7	234	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	46.7	234	U
106-44-5	3 & 4-Methylphenol	ND	46.7	234	U
621-64-7	N-Nitroso-di-n-propylamine	ND	46.7	234	U
67-72-1	Hexachloroethane	ND	46.7	234	U
98-95-3	Nitrobenzene	ND	46.7	234	U
78-59-1	Isophorone	ND	46.7	234	U
88-75-5	2-Nitrophenol	ND	46.7	234	U
105-67-9	2,4-Dimethylphenol	ND	46.7	234	U
65-85-0	Benzoic acid	ND	116	467	U
111-91-1	bis(2-chloroethoxy)methane	ND	46.7	234	U
120-83-2	2,4-Dichlorophenol	ND	46.7	234	U
120-82-1	1,2,4-Trichlorobenzene	ND	46.7	234	U
91-20-3	Naphthalene	ND	46.7	234	U
106-47-8	4-Chloroaniline	ND	46.7	234	U
87-68-3	Hexachlorobutadiene	ND	46.7	234	U
59-50-7	4-Chloro-3-methylphenol	ND	46.7	234	U



## ANALYSIS DATA SHEET

### EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
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**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	46.7	234	U
77-47-4	Hexachlorocyclopentadiene	ND	46.7	234	U
88-06-2	2,4,6-Trichlorophenol	ND	46.7	234	U
95-95-4	2,4,5-Trichlorophenol	ND	46.7	234	U
91-58-7	2-Chloronaphthalene	ND	46.7	234	U
88-74-4	2-Nitroaniline	ND	46.7	234	U
131-11-3	Dimethylphthalate	ND	46.7	234	U
208-96-8	Acenaphthylene	ND	46.7	234	U
99-09-2	3-Nitroaniline	ND	46.7	234	U
83-32-9	Acenaphthene	ND	46.7	234	U
51-28-5	2,4-Dinitrophenol	ND	46.7	467	U
100-02-7	4-Nitrophenol	ND	46.7	234	U
132-64-9	Dibenzofuran	ND	46.7	234	U
606-20-2	2,6-Dinitrotoluene	ND	46.7	234	U
121-14-2	2,4-Dinitrotoluene	ND	46.7	234	U
84-66-2	Diethyl phthalate	ND	46.7	234	U
7005-72-3	4-Chlorophenyl-phenylether	ND	46.7	234	U
86-73-7	Fluorene	ND	46.7	234	U
100-01-6	4-Nitroaniline	ND	46.7	234	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	46.7	234	U
86-30-6	N-Nitrosodiphenylamine	ND	46.7	234	U
101-55-3	4-Bromophenyl-phenylether	ND	46.7	234	U
118-74-1	Hexachlorobenzene	ND	46.7	234	U
87-86-5	Pentachlorophenol	ND	46.7	234	U
85-01-8	Phenanthrene	462	46.7	234	



## ANALYSIS DATA SHEET

### EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	81.8	46.7	234	J
84-74-2	Di-n-butyl phthalate	ND	46.7	234	U
206-44-0	Fluoranthene	581	46.7	234	
129-00-0	Pyrene	531	46.7	234	
85-68-7	Butylbenzylphthalate	ND	46.7	234	U
91-94-1	3,3'-Dichlorobenzidine	ND	116	234	U
56-55-3	Benzo[a]anthracene	238	46.7	234	
117-81-7	bis(2-ethylhexyl)phthalate	ND	46.7	234	U
218-01-9	Chrysene	285	46.7	234	
117-84-0	Di-n-octyl phthalate	ND	46.7	234	U
205-99-2	Benzo[b]fluoranthene	223	46.7	234	J
207-08-9	Benzo[k]fluoranthene	200	46.7	234	J
50-32-8	Benzo[a]pyrene	219	46.7	234	J
193-39-5	Indeno(1,2,3-cd)pyrene	113	46.7	234	J
53-70-3	Dibenzo(a,h)anthracene	47.7	46.7	234	J
191-24-2	Benzo[ghi]perylene	115	46.7	234	J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
2-Fluorophenol	57%	30-130
Phenol-d5	66%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	62%	30-130
2,4,6-Tribromophenol	85%	30-130
Terphenyl-d14	83%	30-130



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\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\E\DATA15\DEC15\E1228\E9636.D  
 Acq On : 28 Dec 2015 15:48  
 Sample : 1502323-01  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Dec 29 9:07 2015

Vial: 2  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Mon Dec 14 12:20:50 2015  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.62	152	233809	40.00	ul/l	-0.17
21) Naphthalene-d8	13.84	136	941338	40.00	ul/l	-0.18
37) Acenaphthene-d10	18.40	164	440251	40.00	ul/l	-0.20
61) Phenanthrene-d10	22.17	188	779829	40.00	ul/l	-0.20
75) Chrysene-d12	29.00	240	800841	40.00	ul/l	-0.21
84) Perylene-d12	32.40	264	693120	40.00	ul/l	-0.22

System Monitoring Compounds

4) 2-Fluorophenol	7.68	112	604883	68.31	ul/l	-0.11
Spiked Amount 120.000	Range	30 - 130	Recovery	=	56.93%	
7) Phenol-d5	10.03	99	1039034	79.55	ul/l	-0.12
Spiked Amount 120.000	Range	30 - 130	Recovery	=	66.29%	
22) Nitrobenzene-d5	12.10	82	605134	63.83	ul/l	-0.17
Spiked Amount 100.000	Range	30 - 130	Recovery	=	63.83%	
42) 2-Fluorobiphenyl	16.71	172	896288	61.76	ul/l	-0.19
Spiked Amount 100.000	Range	30 - 130	Recovery	=	61.76%	
60) 2,4,6-Tribromophenol	20.45	330	275133	102.12	ul/l	-0.20
Spiked Amount 120.000	Range	30 - 130	Recovery	=	85.10%	
78) Terphenyl-d14	26.36	244	1277909	83.43	ul/l	-0.18
Spiked Amount 100.000	Range	30 - 130	Recovery	=	83.43%	

Target Compounds

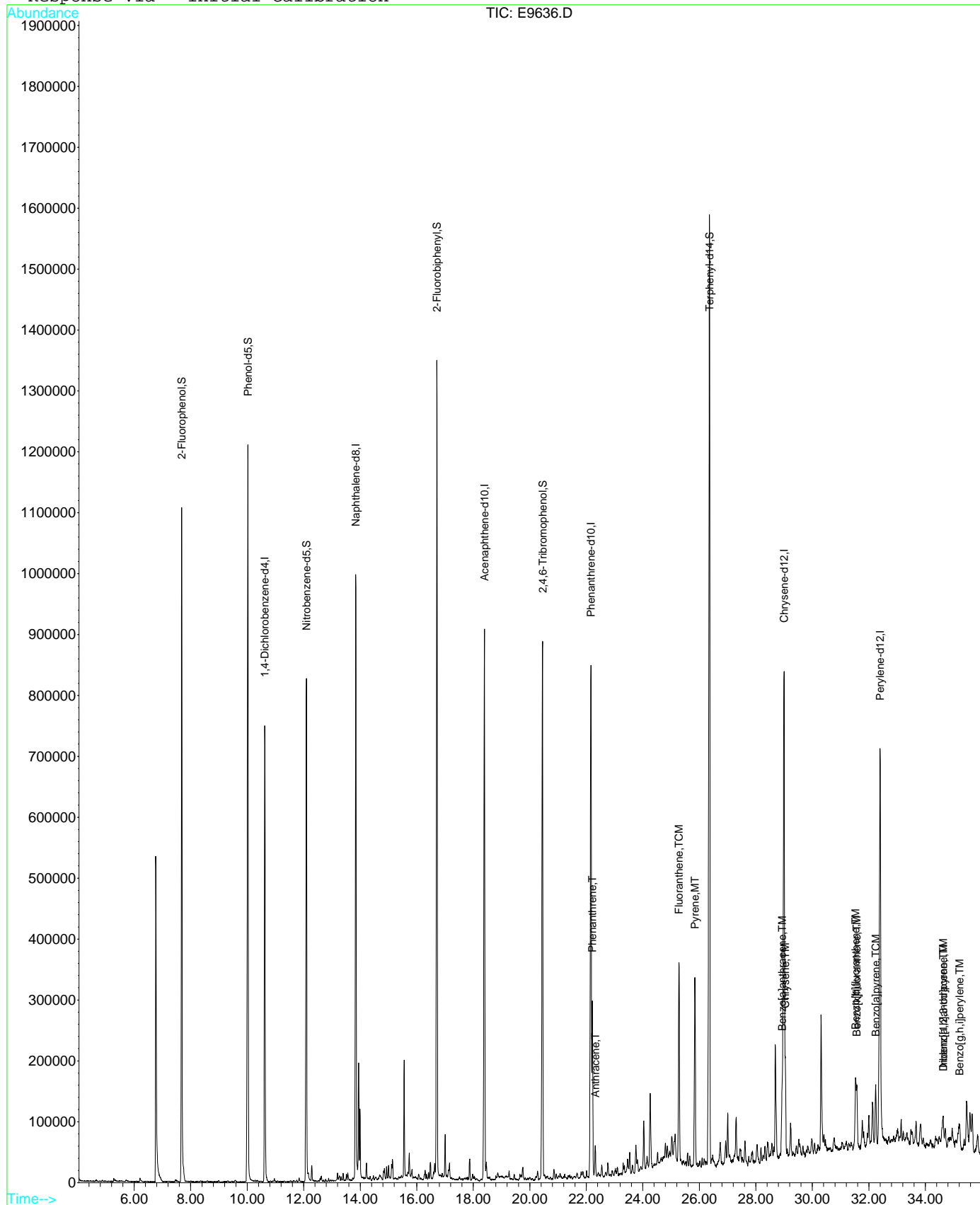
	R.T.	QIon	Response	Conc	Units	Qvalue
71) Phenanthrene	22.21	178	225757	9.89	ul/l	98
72) Anthracene	22.32	178	40065	1.75	ul/l	92
74) Fluoranthene	25.28	202	300979	12.43	ul/l	97
77) Pyrene	25.84	202	256136	11.36	ul/l	97
81) Benzo[a]anthracene	28.93	228	117498	5.09	ul/l	92
83) Chrysene	29.04	228	123790	6.09	ul/l	96
86) Benzo[b]fluoranthene	31.53	252	99216	4.78	ul/l	89
87) Benzo[k]fluoranthene	31.57	252	83410m	4.28	ul/l	
88) Benzo[a]pyrene	32.24	252	92601	4.68	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.63	276	52347	2.42	ul/l	70
90) Dibenz[a,h]anthracene	34.64	278	18801m	1.02	ul/l	
91) Benzo[g,h,i]perylene	35.21	276	42774	2.46	ul/l	88

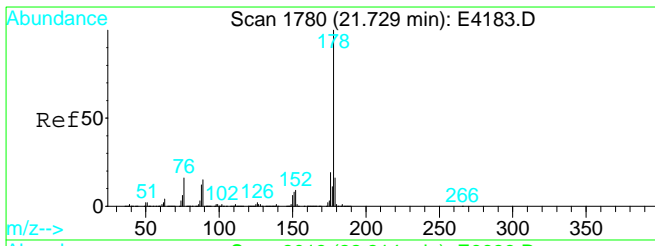
Data File : D:\E\DATA15\DEC15\E1228\E9636.D  
Acq On : 28 Dec 2015 15:48  
Sample : 1502323-01  
Misc : SOIL  
MS Integration Params: rteint.p  
Quant Time: Dec 29 9:07 2015

Vial: 2  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

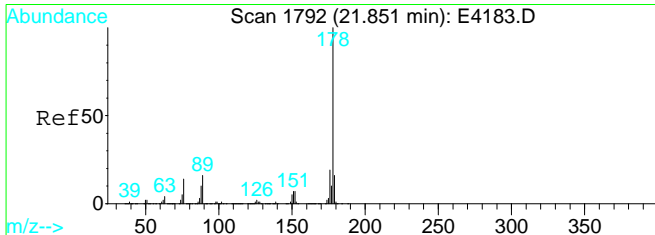
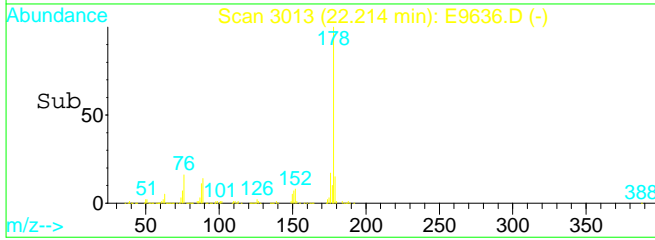
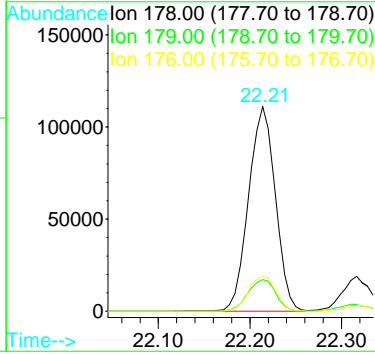
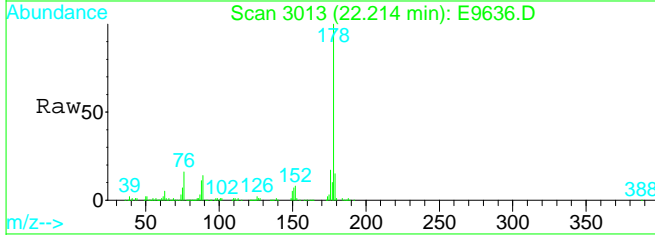
Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration





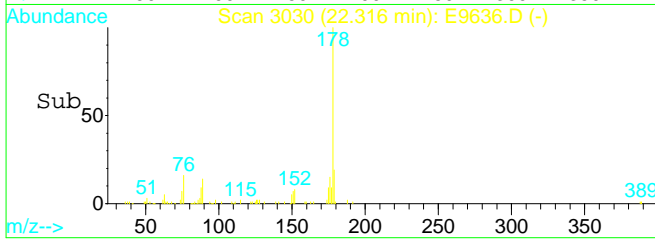
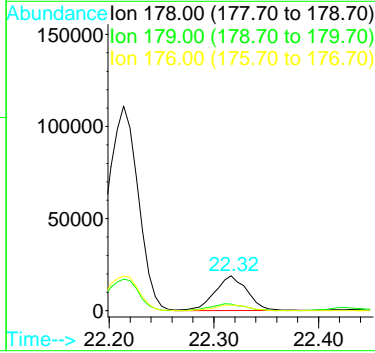
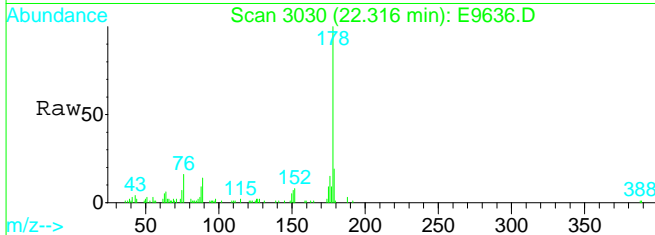
#71  
 Phenanthrene  
 Concen: 9.89 ul/l  
 RT: 22.21 min Scan# 3013  
 Delta R.T. -0.21 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

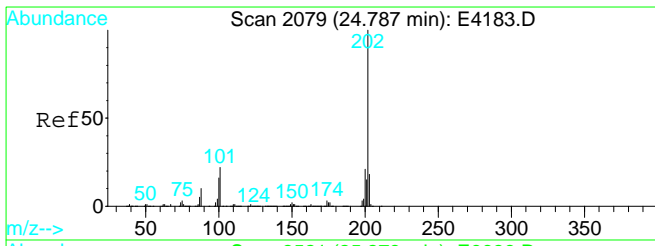
Tgt Ion	Resp	Lower	Upper
178	100		
179	16.0	8.2	24.4
176	17.5	9.7	28.9



#72  
 Anthracene  
 Concen: 1.75 ul/l  
 RT: 22.32 min Scan# 3030  
 Delta R.T. -0.23 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

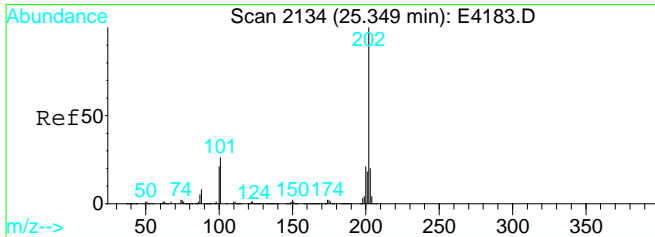
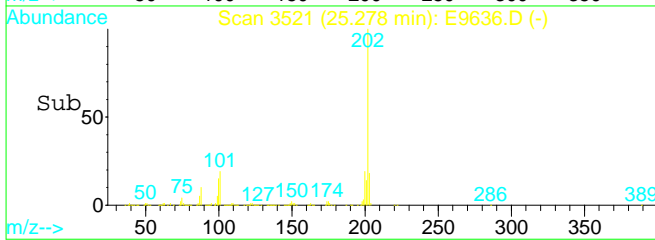
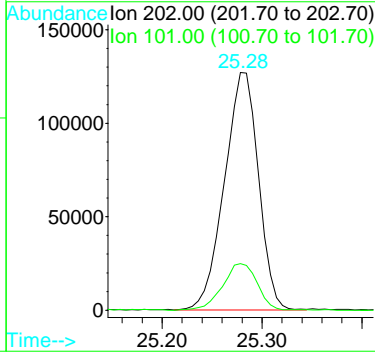
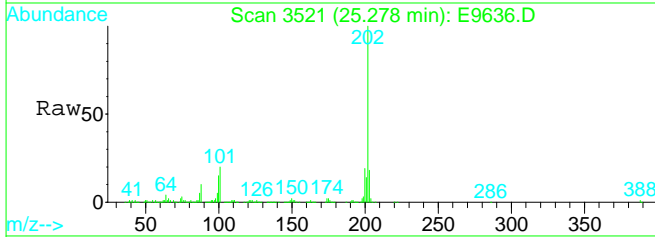
Tgt Ion	Resp	Lower	Upper
178	100		
179	21.8	8.2	24.6
176	17.3	9.5	28.5





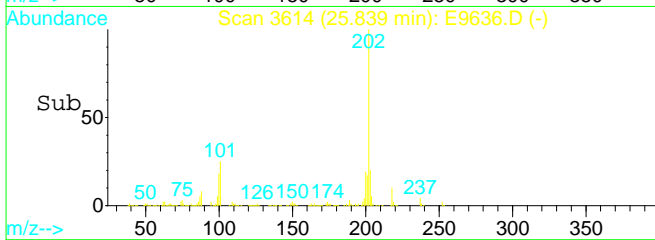
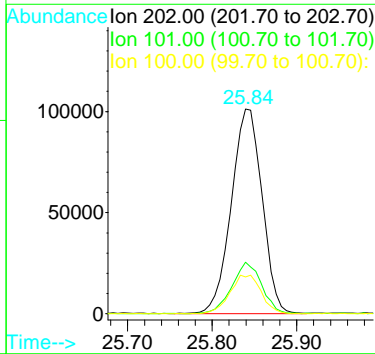
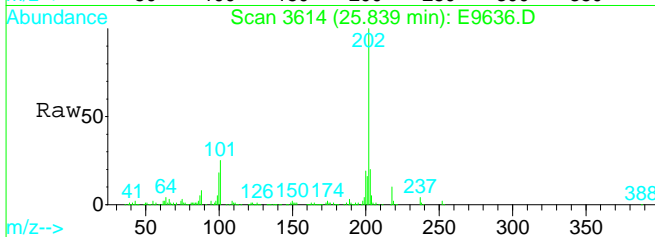
#74  
 Fluoranthene  
 Concen: 12.43 ul/l  
 RT: 25.28 min Scan# 3521  
 Delta R.T. -0.22 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

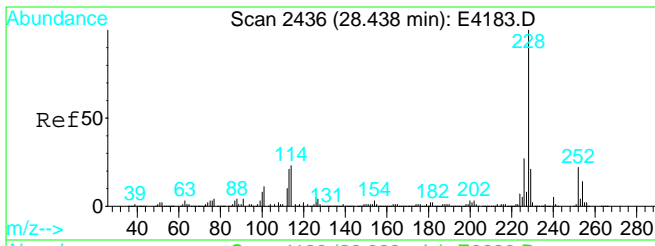
Tgt Ion	Ratio	Lower	Upper
202	100		
101	20.1	10.9	32.6



#77  
 Pyrene  
 Concen: 11.36 ul/l  
 RT: 25.84 min Scan# 3614  
 Delta R.T. -0.23 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

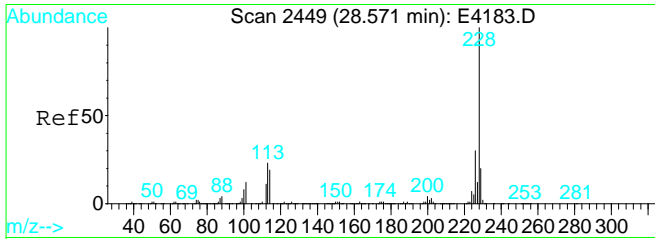
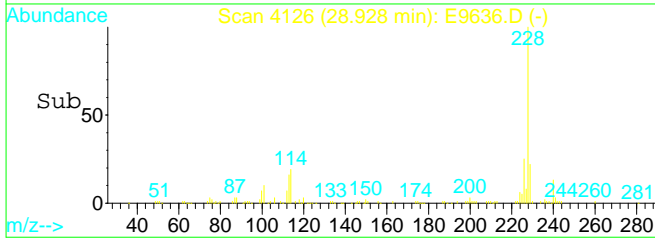
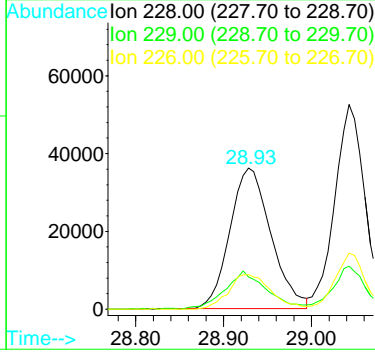
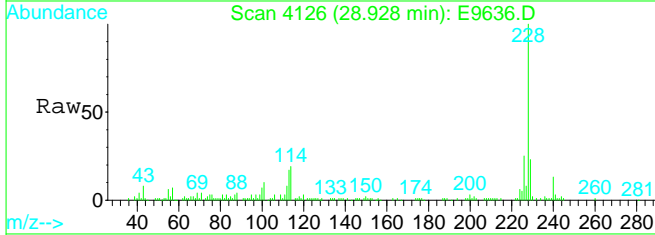
Tgt Ion	Ratio	Lower	Upper
202	100		
101	24.4	13.0	38.9
100	19.2	10.4	31.4





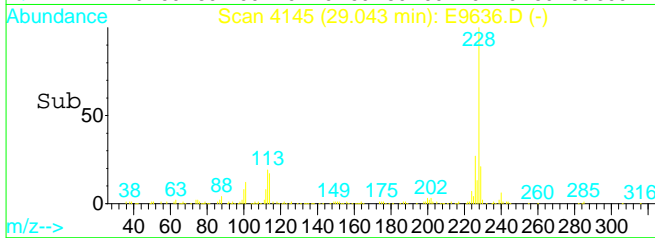
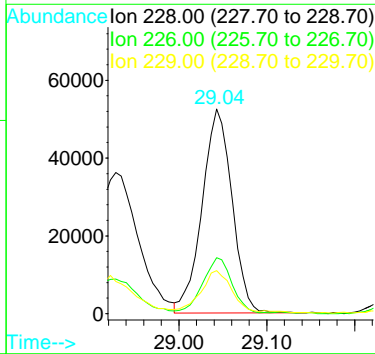
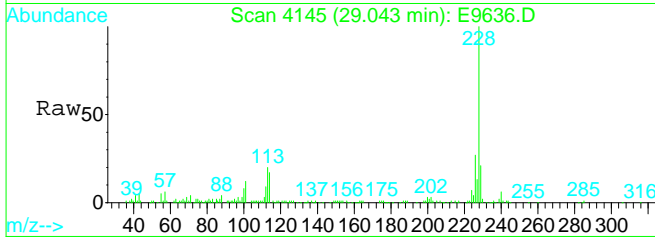
#81  
 Benzo[a]anthracene  
 Concen: 5.09 ul/l  
 RT: 28.93 min Scan# 4126  
 Delta R.T. -0.23 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

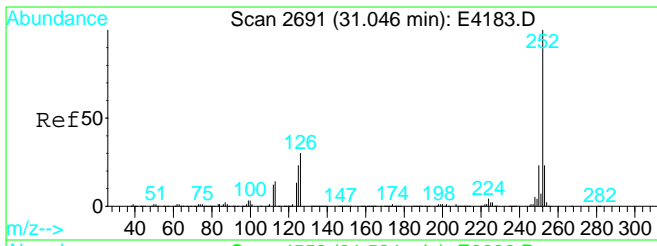
Tgt Ion	Resp	Lower	Upper
228	117498		
229	27.4	10.4	31.1
226	25.5	13.7	41.0



#83  
 Chrysene  
 Concen: 6.09 ul/l  
 RT: 29.04 min Scan# 4145  
 Delta R.T. -0.24 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

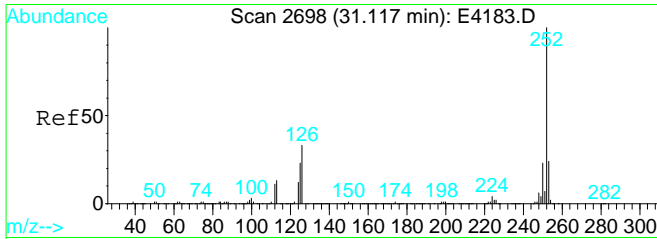
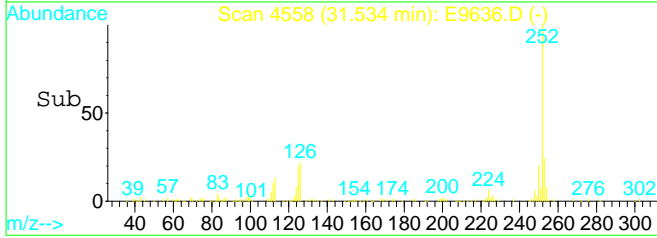
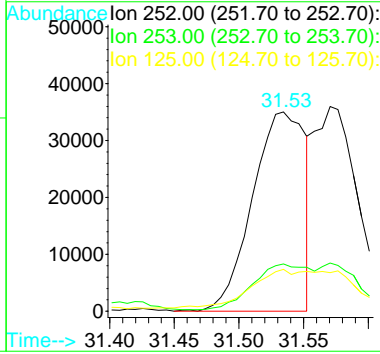
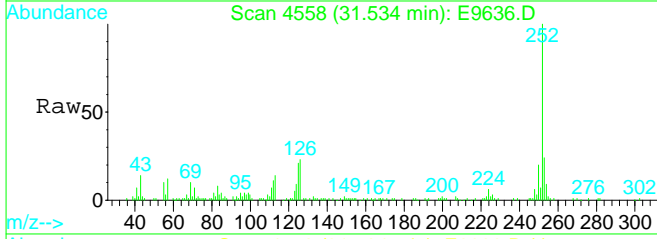
Tgt Ion	Resp	Lower	Upper
228	123790		
226	26.3	15.0	45.1
229	20.2	10.2	30.6





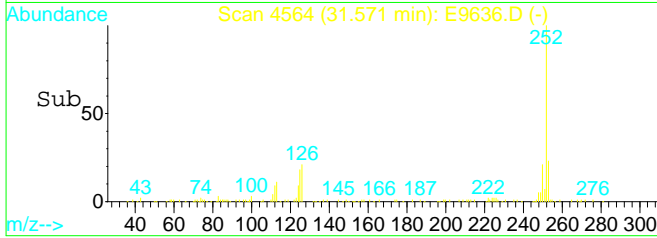
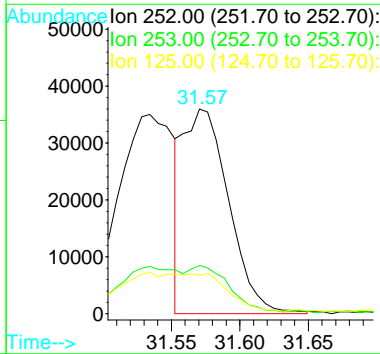
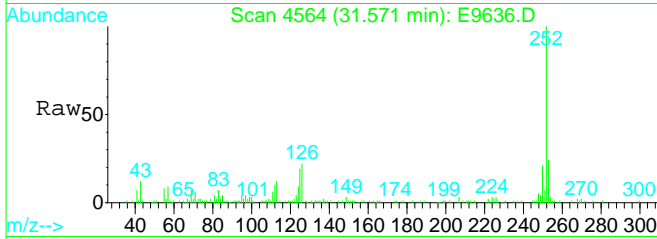
#86  
 Benzo[b]fluoranthene  
 Concen: 4.78 ul/l  
 RT: 31.53 min Scan# 4558  
 Delta R.T. -0.24 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

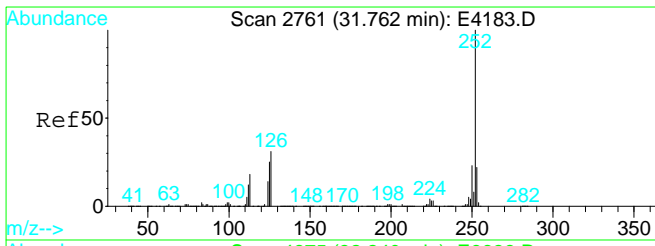
Tgt Ion	Resp	Lower	Upper
252	99216		
253	25.3	11.5	34.4
125	15.0	11.5	34.4



#87  
 Benzo[k]fluoranthene  
 Concen: 4.28 ul/l m  
 RT: 31.57 min Scan# 4564  
 Delta R.T. -0.27 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

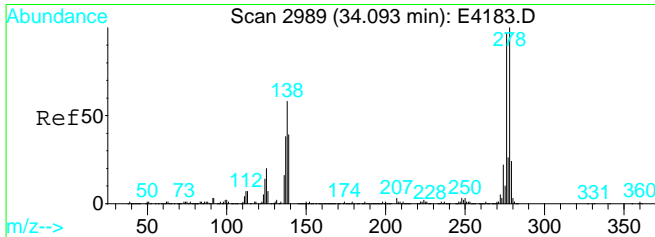
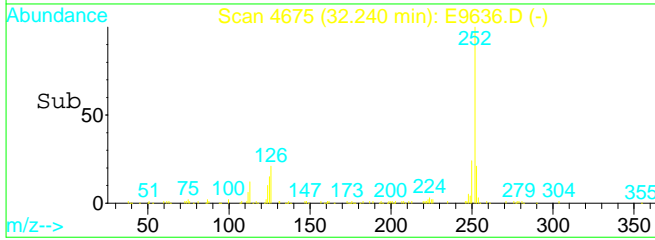
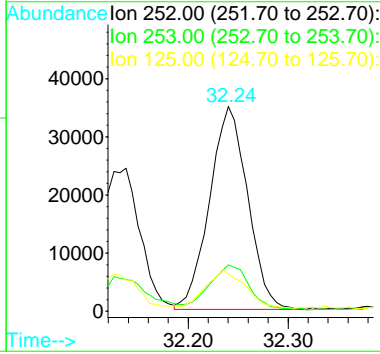
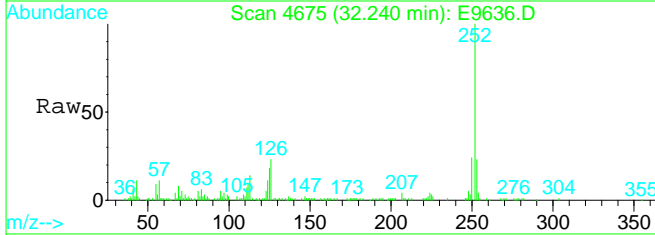
Tgt Ion	Resp	Lower	Upper
252	83410		
253	30.1	11.8	35.4
125	17.8	11.7	35.0





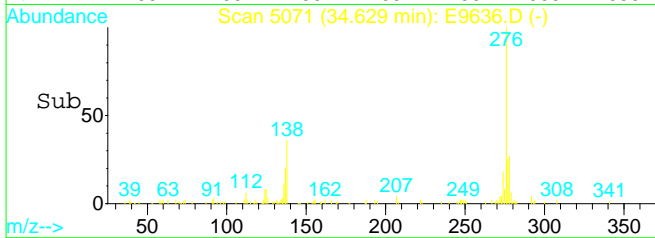
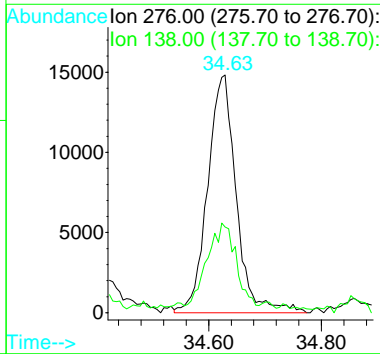
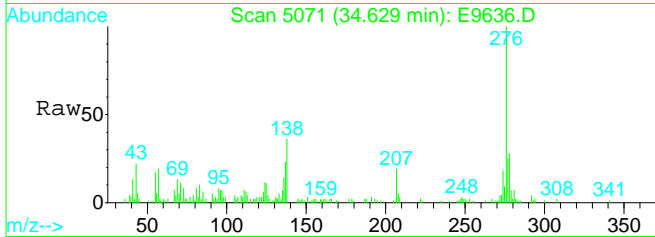
#88  
 Benzo[a]pyrene  
 Concen: 4.68 ul/l  
 RT: 32.24 min Scan# 4675  
 Delta R.T. -0.26 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

Tgt Ion	Resp	Lower	Upper
252	92601		
253	23.0	11.3	33.8
125	19.4	12.4	37.0

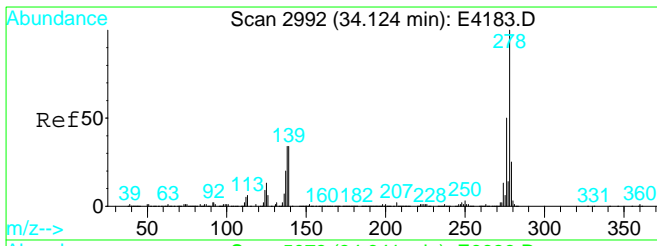


#89  
 Indeno[1,2,3-cd]pyrene  
 Concen: 2.42 ul/l  
 RT: 34.63 min Scan# 5071  
 Delta R.T. -0.33 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

Tgt Ion	Resp	Lower	Upper
276	52347		
138	36.9	29.9	89.7

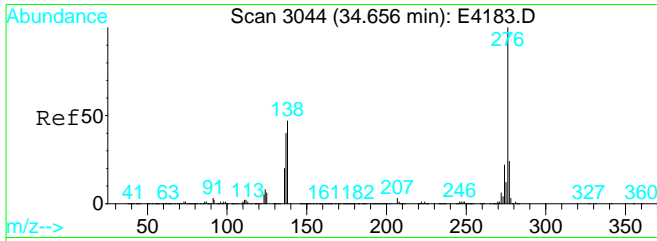
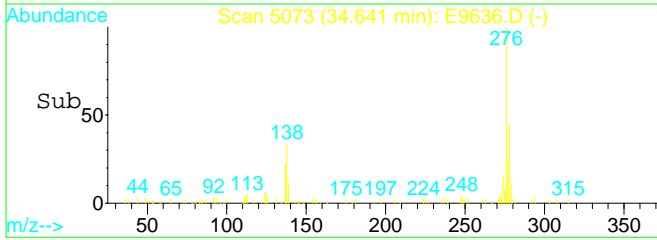
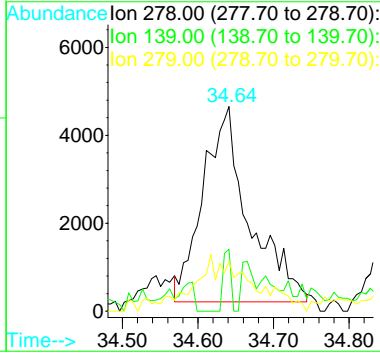
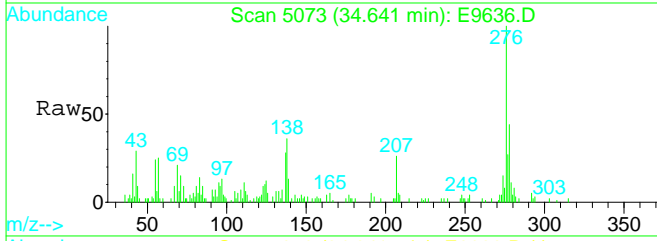






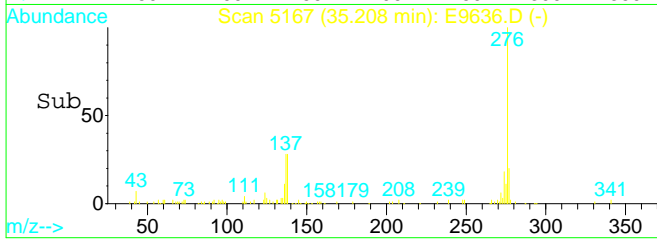
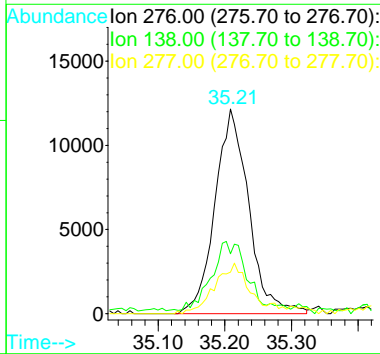
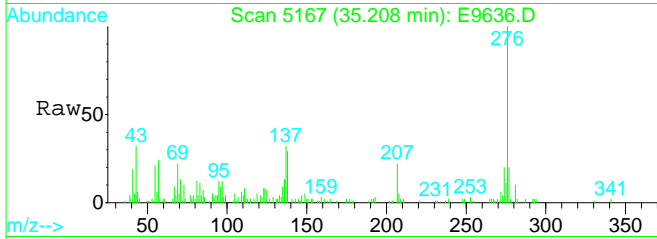
#90  
 Dibenz[a,h]anthracene  
 Concen: 1.02 ul/l m  
 RT: 34.64 min Scan# 5073  
 Delta R.T. -0.34 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

Tgt Ion	Resp	Lower	Upper
278	18801		
139	10.6	17.0	51.0#
279	7.5	12.7	38.0#



#91  
 Benzo[g,h,i]perylene  
 Concen: 2.46 ul/l  
 RT: 35.21 min Scan# 5167  
 Delta R.T. -0.37 min  
 Lab File: E9636.D  
 Acq: 28 Dec 2015 15:48

Tgt Ion	Resp	Lower	Upper
276	42774		
138	35.2	23.4	70.3
277	24.3	12.2	36.4



# SEMIVOLATILES QC DATA



## ANALYSIS DATA SHEET

Blank

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	33.3	167	U
108-95-2	Phenol	ND	33.3	167	U
111-44-4	bis(2-chloroethyl)ether	ND	33.3	167	U
95-57-8	2-Chlorophenol	ND	33.3	167	U
541-73-1	1,3-Dichlorobenzene	ND	33.3	167	U
106-46-7	1,4-Dichlorobenzene	ND	33.3	167	U
100-51-6	Benzyl alcohol	ND	33.3	167	U
95-50-1	1,2-Dichlorobenzene	ND	33.3	167	U
95-48-7	2-Methylphenol	ND	33.3	167	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	33.3	167	U
106-44-5	3 & 4-Methylphenol	ND	33.3	167	U
621-64-7	N-Nitroso-di-n-propylamine	ND	33.3	167	U
67-72-1	Hexachloroethane	ND	33.3	167	U
98-95-3	Nitrobenzene	ND	33.3	167	U
78-59-1	Isophorone	ND	33.3	167	U
88-75-5	2-Nitrophenol	ND	33.3	167	U
105-67-9	2,4-Dimethylphenol	ND	33.3	167	U
65-85-0	Benzoic acid	ND	83.0	333	U
111-91-1	bis(2-chloroethoxy)methane	ND	33.3	167	U
120-83-2	2,4-Dichlorophenol	ND	33.3	167	U
120-82-1	1,2,4-Trichlorobenzene	ND	33.3	167	U
91-20-3	Naphthalene	ND	33.3	167	U
106-47-8	4-Chloroaniline	ND	33.3	167	U
87-68-3	Hexachlorobutadiene	ND	33.3	167	U



## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
59-50-7	4-Chloro-3-methylphenol	ND	33.3	167	U
91-57-6	2-Methylnaphthylene	ND	33.3	167	U
77-47-4	Hexachlorocyclopentadiene	ND	33.3	167	U
88-06-2	2,4,6-Trichlorophenol	ND	33.3	167	U
95-95-4	2,4,5-Trichlorophenol	ND	33.3	167	U
91-58-7	2-Chloronaphthalene	ND	33.3	167	U
88-74-4	2-Nitroaniline	ND	33.3	167	U
131-11-3	Dimethylphthalate	ND	33.3	167	U
208-96-8	Acenaphthylene	ND	33.3	167	U
99-09-2	3-Nitroaniline	ND	33.3	167	U
83-32-9	Acenaphthene	ND	33.3	167	U
51-28-5	2,4-Dinitrophenol	ND	33.3	333	U
100-02-7	4-Nitrophenol	ND	33.3	167	U
132-64-9	Dibenzofuran	ND	33.3	167	U
606-20-2	2,6-Dinitrotoluene	ND	33.3	167	U
121-14-2	2,4-Dinitrotoluene	ND	33.3	167	U
84-66-2	Diethyl phthalate	ND	33.3	167	U
7005-72-3	4-Chlorophenyl-phenylether	ND	33.3	167	U
86-73-7	Fluorene	ND	33.3	167	U
100-01-6	4-Nitroaniline	ND	33.3	167	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	33.3	167	U
86-30-6	N-Nitrosodiphenylamine	ND	33.3	167	U
101-55-3	4-Bromophenyl-phenylether	ND	33.3	167	U
118-74-1	Hexachlorobenzene	ND	33.3	167	U



## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
87-86-5	Pentachlorophenol	ND	33.3	167	U
85-01-8	Phenanthrene	ND	33.3	167	U
120-12-7	Anthracene	ND	33.3	167	U
84-74-2	Di-n-butyl phthalate	ND	33.3	167	U
206-44-0	Fluoranthene	ND	33.3	167	U
129-00-0	Pyrene	ND	33.3	167	U
85-68-7	Butylbenzylphthalate	ND	33.3	167	U
91-94-1	3,3'-Dichlorobenzidine	ND	83.0	167	U
56-55-3	Benzo[a]anthracene	ND	33.3	167	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	33.3	167	U
218-01-9	Chrysene	ND	33.3	167	U
117-84-0	Di-n-octyl phthalate	ND	33.3	167	U
205-99-2	Benzo[b]fluoranthene	ND	33.3	167	U
207-08-9	Benzo[k]fluoranthene	ND	33.3	167	U
50-32-8	Benzo[a]pyrene	ND	33.3	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	167	U
53-70-3	Dibenzo(a,h)anthracene	ND	33.3	167	U
191-24-2	Benzo[ghi]perylene	ND	33.3	167	U
	<b><u>Surrogate</u></b>	<b><u>% Recovery</u></b>		<b><u>Recovery Limits</u></b>	
	2-Fluorophenol	77%		30-130	
	Phenol-d5	83%		30-130	
	Nitrobenzene-d5	90%		30-130	
	2-Fluorobiphenyl	91%		30-130	
	2,4,6-Tribromophenol	92%		30-130	
	Terphenyl-d14	115%		30-130	

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\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\E\DATA15\DEC15\E1229\E9652.D  
 Acq On : 29 Dec 2015 10:58  
 Sample : B5L2403-BLK1  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Dec 29 14:47 2015

Vial: 1  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Mon Dec 14 12:20:50 2015  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.66	152	285131	40.00	ul/l	-0.12
21) Naphthalene-d8	13.88	136	1115461	40.00	ul/l	-0.15
37) Acenaphthene-d10	18.43	164	463810	40.00	ul/l	-0.16
61) Phenanthrene-d10	22.20	188	790227	40.00	ul/l	-0.16
75) Chrysene-d12	29.03	240	721280	40.00	ul/l	-0.18
84) Perylene-d12	32.44	264	622513	40.00	ul/l	-0.18

System Monitoring Compounds

4) 2-Fluorophenol	7.74	112	995709	92.21	ul/l	-0.05
Spiked Amount 120.000	Range	30 - 130	Recovery	=	76.84%	
7) Phenol-d5	10.07	99	1579060	99.14	ul/l	-0.08
Spiked Amount 120.000	Range	30 - 130	Recovery	=	82.62%	
22) Nitrobenzene-d5	12.14	82	1007862	89.72	ul/l	-0.13
Spiked Amount 100.000	Range	30 - 130	Recovery	=	89.72%	
42) 2-Fluorobiphenyl	16.76	172	1384892	90.59	ul/l	-0.14
Spiked Amount 100.000	Range	30 - 130	Recovery	=	90.59%	
60) 2,4,6-Tribromophenol	20.49	330	314540	110.81	ul/l	-0.16
Spiked Amount 120.000	Range	30 - 130	Recovery	=	92.34%	
78) Terphenyl-d14	26.41	244	1592202	115.41	ul/l	-0.13
Spiked Amount 100.000	Range	30 - 130	Recovery	=	115.41%	

Target Compounds

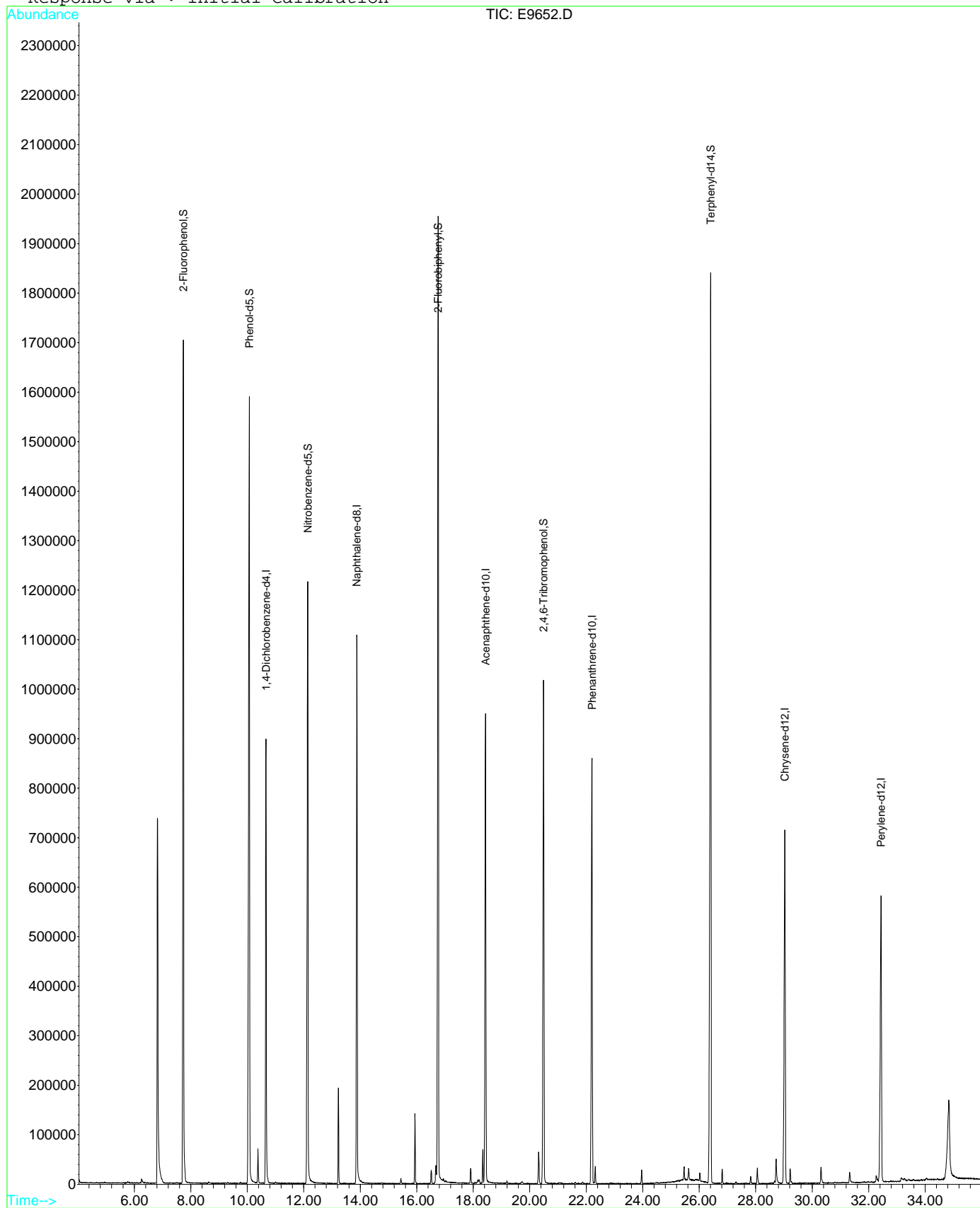
Qvalue

Data File : D:\E\DATA15\DEC15\E1229\E9652.D  
 Acq On : 29 Dec 2015 10:58  
 Sample : B5L2403-BLK1  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Dec 29 14:47 2015

Vial: 1  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Mon Dec 14 12:20:50 2015  
 Response via : Initial Calibration





# SEMIVOLATILES QC SUMMARY



## SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

**Matrix:** Solid  
**Instrument:** GC/MS E

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)
1502323-01	57	62	64	66	85	83
B5L2403-BLK1	77	91	90	83	92	115
B5L2403-BS1	82	90	92	90	114	112
B5L2403-MS1	65	77	75	73	112	112
B5L2403-MSD1	73	80	79	82	115	106



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1790	ND	873	49	20 - 160
N-Nitrosodimethylamine	1790	ND	930	52	20 - 160
Aniline	1790	ND	877	49	20 - 160
Phenol	1790	ND	1140	64	20 - 160
bis(2-chloroethyl)ether	1790	ND	1070	60	* 70 - 130
2-Chlorophenol	1790	ND	1140	63	* 70 - 130
1,3-Dichlorobenzene	1790	ND	1130	63	* 70 - 130
1,4-Dichlorobenzene	1790	ND	1100	62	* 70 - 130
Benzyl alcohol	1790	ND	1100	62	20 - 160
1,2-Dichlorobenzene	1790	ND	1130	63	* 70 - 130
2-Methylphenol	1790	ND	1160	65	20 - 160
bis(2-chloroisopropyl)ether	1790	ND	1080	60	* 70 - 130
3 & 4-Methylphenol	1790	ND	1170	65	20 - 160
N-Nitroso-di-n-propylamine	1790	ND	1100	61	* 70 - 130
Hexachloroethane	1790	ND	1090	61	20 - 160
Nitrobenzene	1790	ND	1210	68	* 70 - 130
Isophorone	1790	ND	1180	66	* 70 - 130
2-Nitrophenol	1790	ND	1220	68	* 70 - 130
2,4-Dimethylphenol	1790	ND	1290	72	70 - 130
bis(2-chloroethoxy)methane	1790	ND	1200	67	* 70 - 130
2,4-Dichlorophenol	1790	ND	1310	73	70 - 130
1,2,4-Trichlorobenzene	1790	ND	1270	71	70 - 130
Naphthalene	1790	ND	1220	68	* 70 - 130
4-Chloroaniline	1790	ND	463	26	20 - 160
Hexachlorobutadiene	1790	ND	1220	68	* 70 - 130
4-Chloro-3-methylphenol	1790	ND	1490	83	70 - 130
2-Methylnaphthylene	1790	ND	1260	70	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Hexachlorocyclopentadiene	1790	ND	865	48	20 - 160
2,4,6-Trichlorophenol	1790	ND	1450	81	70 - 130
2,4,5-Trichlorophenol	1790	ND	1510	84	70 - 130
2-Chloronaphthalene	1790	ND	1240	69	* 70 - 130
2-Nitroaniline	1790	ND	1510	84	70 - 130
Dimethylphthalate	1790	ND	1550	86	70 - 130
Acenaphthylene	1790	ND	1420	79	70 - 130
3-Nitroaniline	1790	ND	1130	63	* 70 - 130
Acenaphthene	1790	ND	1380	77	70 - 130
2,4-Dinitrophenol	1790	ND	1100	61	20 - 160
4-Nitrophenol	1790	ND	1740	97	20 - 160
Dibenzofuran	1790	ND	1540	86	70 - 130
2,6-Dinitrotoluene	1790	ND	1520	85	70 - 130
2,4-Dinitrotoluene	1790	ND	1640	91	70 - 130
2,3,4,6-Tetrachlorophenol	1790	ND	1580	88	70 - 130
Diethyl phthalate	1790	ND	1510	84	70 - 130
4-Chlorophenyl-phenylether	1790	ND	1460	82	70 - 130
Fluorene	1790	ND	1480	82	70 - 130
4-Nitroaniline	1790	ND	1530	85	70 - 130
4,6-Dinitro-2-methylphenol	1790	ND	1390	78	70 - 130
Carbazole	1790	ND	1640	92	70 - 130
N-Nitrosodiphenylamine	1790	ND	1610	90	20 - 160
Azobenzene	1790	ND	1600	89	70 - 130
4-Bromophenyl-phenylether	1790	ND	1670	93	70 - 130
Hexachlorobenzene	1790	ND	1690	94	70 - 130
Pentachlorophenol	1790	ND	1460	81	20 - 160
Phenanthrene	1790	403	1640	69	* 70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Anthracene	1790	95.3	1590	83	70 - 130
Di-n-butyl phthalate	1790	ND	1550	86	70 - 130
Fluoranthene	1790	465	1650	66	* 70 - 130
Pyrene	1790	392	1850	81	70 - 130
Butylbenzylphthalate	1790	ND	1700	95	70 - 130
Benzo[a]anthracene	1790	215	1690	82	70 - 130
bis(2-ethylhexyl)phthalate	1790	ND	1890	106	70 - 130
Chrysene	1790	220	1860	92	70 - 130
Di-n-octyl phthalate	1790	ND	1710	96	70 - 130
Benzo[b]fluoranthene	1790	195	1820	91	70 - 130
Benzo[k]fluoranthene	1790	208	1740	86	70 - 130
Benzo[a]pyrene	1790	193	1810	90	70 - 130
Indeno(1,2,3-cd)pyrene	1790	103	1690	89	70 - 130
Dibenzo(a,h)anthracene	1790	51.3	1730	94	70 - 130
Benzo[ghi]perylene	1790	104	1680	88	70 - 130

Data File : D:\E\DATA15\DEC15\E1229\E9657.D  
 Acq On : 29 Dec 2015 14:39  
 Sample : B5L2403-MS1  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Jan 6 16:52 2016

Vial: 6  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Wed Jan 06 09:13:41 2016  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.66	152	291778	40.00	ul/l	-0.12
21) Naphthalene-d8	13.89	136	1203542	40.00	ul/l	-0.13
37) Acenaphthene-d10	18.45	164	560778	40.00	ul/l	-0.15
61) Phenanthrene-d10	22.22	188	922206	40.00	ul/l	-0.15
75) Chrysene-d12	29.06	240	910199	40.00	ul/l	-0.16
84) Perylene-d12	32.46	264	807626	40.00	ul/l	-0.16

System Monitoring Compounds

4) 2-Fluorophenol	7.73	112	862034	78.01	ul/l	-0.05
Spiked Amount 120.000	Range	30 - 130	Recovery	=	65.01%	
7) Phenol-d5	10.08	99	1424411	87.39	ul/l	-0.07
Spiked Amount 120.000	Range	30 - 130	Recovery	=	72.82%	
22) Nitrobenzene-d5	12.15	82	905724	74.73	ul/l	-0.12
Spiked Amount 100.000	Range	30 - 130	Recovery	=	74.73%	
42) 2-Fluorobiphenyl	16.77	172	1421805	76.92	ul/l	-0.13
Spiked Amount 100.000	Range	30 - 130	Recovery	=	76.92%	
60) 2,4,6-Tribromophenol	20.52	330	459184	133.80	ul/l	-0.13
Spiked Amount 120.000	Range	30 - 130	Recovery	=	111.50%	
78) Terphenyl-d14	26.41	244	1943946	111.66	ul/l	-0.13
Spiked Amount 100.000	Range	30 - 130	Recovery	=	111.66%	

Target Compounds

						Qvalue
2) Pyridine	4.33	79	294562	24.35	ul/l	95
3) N-Nitrosodimethylamine	4.40	74	262769	25.96	ul/l	96
6) Aniline	9.98	93	532266	24.48	ul/l	90
8) Phenol	10.11	94	566394	31.92	ul/l	90
9) bis(2-Chloroethyl)ether	10.18	93	463558	29.81	ul/l	96
10) 2-Chlorophenol	10.25	128	387144	31.68	ul/l	95
11) 1,3-Dichlorobenzene	10.57	146	368028	31.39	ul/l	99
12) 1,4-Dichlorobenzene	10.71	146	378005	30.80	ul/l	98
13) Benzyl alcohol	11.15	79	358242	30.79	ul/l	89
14) 1,2-Dichlorobenzene	11.16	146	377527	31.46	ul/l	98
15) 2-Methylphenol	11.53	108	398273	32.38	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.54	45	956509	30.23	ul/l #	73
18) 3&4-Methylphenol	11.91	108	447972	32.53	ul/l	96
19) N-Nitroso-di-n-propylamine	11.91	70	379391	30.73	ul/l	90
20) Hexachloroethane	11.92	117	166203	30.31	ul/l	95
23) Nitrobenzene	12.19	77	466653	33.85	ul/l	92
24) Isophorone	12.80	82	965331	33.05	ul/l	99
25) 2-Nitrophenol	12.99	139	221361	34.16	ul/l	96
26) 2,4-Dimethylphenol	13.22	107	388347	35.86	ul/l	98
28) bis(2-Chloroethoxy)methane	13.44	93	556542	33.42	ul/l	97
29) 2,4-Dichlorophenol	13.63	162	308752	36.42	ul/l	98
30) 1,2,4-Trichlorobenzene	13.80	180	301526	35.39	ul/l	96
31) Naphthalene	13.95	128	1091602	34.11	ul/l	99
32) 4-Chloroaniline	14.17	127	187304	12.91	ul/l	98
33) Hexachlorobutadiene	14.45	225	155126	33.96	ul/l #	58
35) 4-Chloro-3-methylphenol	15.50	107	381032	41.44	ul/l	99
36) 2-Methylnaphthalene	15.72	142	742813	35.04	ul/l	94
39) Hexachlorocyclopentadiene	16.32	237	113026	24.12	ul/l	96
40) 2,4,6-Trichlorophenol	16.56	196	234441	40.32	ul/l	98
41) 2,4,5-Trichlorophenol	16.65	196	255687	42.06	ul/l	100
44) 2-Chloronaphthalene	16.96	162	674643	34.65	ul/l	97
45) 2-Nitroaniline	17.35	65	302850	42.16	ul/l	90
46) Dimethylphthalate	17.97	163	904772	43.25	ul/l	99
47) Acenaphthylene	18.04	152	1175304	39.64	ul/l	98
48) 3-Nitroaniline	18.45	138	223844	31.41	ul/l	97
49) Acenaphthene	18.54	153	711237	38.60	ul/l	99
50) 2,4-Dinitrophenol	18.69	184	88312	30.73	ul/l	98
51) 4-Nitrophenol	18.96	109	95356	48.61	ul/l #	1
52) Dibenzofuran	18.94	168	1063917	43.10	ul/l #	57
53) 2,6-Dinitrotoluene	18.11	165	224191	42.53	ul/l	97
54) 2,4-Dinitrotoluene	19.11	165	300307	45.70	ul/l	98

(#) = qualifier out of range (m) = manual integration  
 E9657.D SVE81208.M Wed Jan 06 17:01:20 2016

Data File : D:\E\DATA15\DEC15\E1229\E9657.D  
 Acq On : 29 Dec 2015 14:39  
 Sample : B5L2403-MS1  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Jan 6 16:52 2016

Vial: 6  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Wed Jan 06 09:13:41 2016  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

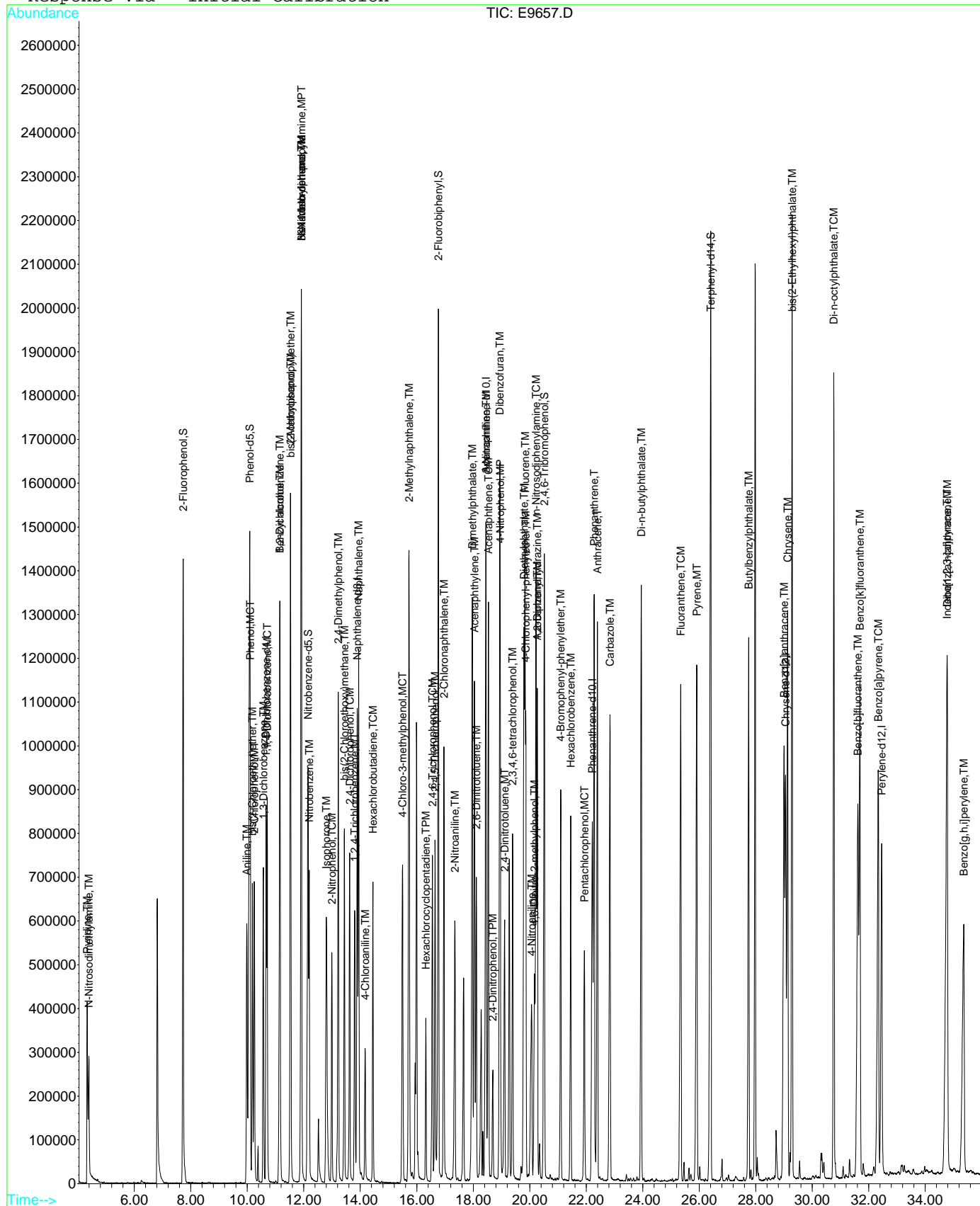
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) 2,3,4,6-tetrachlorophenol	19.39	232	234654	43.99	ul/l	96
56) Diethylphthalate	19.79	149	935484	42.20	ul/l	100
57) 4-Chlorophenyl-phenylether	19.86	204	406497	40.78	ul/l	95
58) Fluorene	19.83	166	901540	41.19	ul/l	97
59) 4-Nitroaniline	20.06	138	281916	42.63	ul/l	98
62) 4,6-Dinitro-2-methylphenol	20.17	198	173571	38.75	ul/l	96
63) Carbazole	22.84	167	1182997	45.88	ul/l	99
64) n-Nitrosodiphenylamine	20.22	169	763445	44.81	ul/l	98
65) 1,2-Diphenylhydrazine	20.27	77	1314370	44.67	ul/l	87
66) Azobenzene	20.27	77	1314370	44.65	ul/l	87
67) 4-Bromophenyl-phenylether	21.10	248	255787	46.50	ul/l	96
68) Hexachlorobenzene	21.45	284	293876	47.15	ul/l #	69
70) Pentachlorophenol	21.93	266	165661	40.73	ul/l	98
71) Phenanthrene	22.28	178	1235089	45.75	ul/l	98
72) Anthracene	22.40	178	1203685	44.39	ul/l	98
73) Di-n-butylphthalate	23.95	149	1589931	43.25	ul/l	99
74) Fluoranthene	25.35	202	1314372	45.91	ul/l	96
77) Pyrene	25.91	202	1321937	51.58	ul/l	96
79) Butylbenzylphthalate	27.75	149	719218	47.48	ul/l	95
81) Benzo[a]anthracene	29.00	228	1234808	47.10	ul/l	98
82) bis(2-Ethylhexyl)phthalate	29.29	149	1123023	52.87	ul/l	97
83) Chrysene	29.13	228	1202579	52.02	ul/l	97
85) Di-n-octylphthalate	30.77	149	1731999	47.77	ul/l	98
86) Benzo[b]fluoranthene	31.62	252	1231209	50.90	ul/l	93
87) Benzo[k]fluoranthene	31.69	252	1103946	48.57	ul/l	92
88) Benzo[a]pyrene	32.34	252	1164658	50.53	ul/l	93
89) Indeno[1,2,3-cd]pyrene	34.76	276	1192116	47.25	ul/l	75
90) Dibenz[a,h]anthracene	34.78	278	1034156	48.21	ul/l	89
91) Benzo[g,h,i]perylene	35.36	276	949167	46.89	ul/l	87

Data File : D:\E\DATA15\DEC15\E1229\E9657.D  
Acq On : 29 Dec 2015 14:39  
Sample : B5L2403-MS1  
Misc : SOIL  
MS Integration Params: rteint.p  
Quant Time: Jan 6 16:52 2016

Vial: 6  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Wed Jan 06 09:13:41 2016  
Response via : Initial Calibration







## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	%	QC LIMITS		
					RPD	REC.	
Pyridine	1790	905	50	4	30	20 - 160	
N-Nitrosodimethylamine	1790	995	55	7	30	20 - 160	
Aniline	1790	949	53	8	30	20 - 160	
Phenol	1790	1270	71	11	30	20 - 160	
bis(2-chloroethyl)ether	1790	1210	67	*	12	30	70 - 130
2-Chlorophenol	1790	1280	71		12	30	70 - 130
1,3-Dichlorobenzene	1790	1250	70		10	30	70 - 130
1,4-Dichlorobenzene	1790	1240	69	*	12	30	70 - 130
Benzyl alcohol	1790	1220	68		10	30	20 - 160
1,2-Dichlorobenzene	1790	1250	70		10	30	70 - 130
2-Methylphenol	1790	1290	72		11	30	20 - 160
bis(2-chloroisopropyl)ether	1790	1180	66	*	8	30	70 - 130
3 & 4-Methylphenol	1790	1310	73		12	30	20 - 160
N-Nitroso-di-n-propylamine	1790	1210	68	*	10	30	70 - 130
Hexachloroethane	1790	1210	67		11	30	20 - 160
Nitrobenzene	1790	1320	74		8	30	70 - 130
Isophorone	1790	1300	73		9	30	70 - 130
2-Nitrophenol	1790	1350	76		10	30	70 - 130
2,4-Dimethylphenol	1790	1450	81		12	30	70 - 130
bis(2-chloroethoxy)methane	1790	1320	73		9	30	70 - 130
2,4-Dichlorophenol	1790	1440	81		10	30	70 - 130
1,2,4-Trichlorobenzene	1790	1360	76		7	30	70 - 130
Naphthalene	1790	1340	75		9	30	70 - 130
4-Chloroaniline	1790	438	24		6	30	20 - 160
Hexachlorobutadiene	1790	1340	75		9	30	70 - 130
4-Chloro-3-methylphenol	1790	1520	85		2	30	70 - 130
2-Methylnaphthylene	1790	1380	77		9	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Hexachlorocyclopentadiene	1790	762	42	13	30	20 - 160
2,4,6-Trichlorophenol	1790	1530	85	6	30	70 - 130
2,4,5-Trichlorophenol	1790	1600	89	6	30	70 - 130
2-Chloronaphthalene	1790	1330	74	7	30	70 - 130
2-Nitroaniline	1790	1550	86	2	30	70 - 130
Dimethylphthalate	1790	1590	89	3	30	70 - 130
Acenaphthylene	1790	1480	83	4	30	70 - 130
3-Nitroaniline	1790	1110	62	2	30	70 - 130
Acenaphthene	1790	1540	86	11	30	70 - 130
2,4-Dinitrophenol	1790	1020	57	8	30	20 - 160
4-Nitrophenol	1790	1750	97	0.2	30	20 - 160
Dibenzofuran	1790	1630	91	5	30	70 - 130
2,6-Dinitrotoluene	1790	1570	88	3	30	70 - 130
2,4-Dinitrotoluene	1790	1660	93	1	30	70 - 130
2,3,4,6-Tetrachlorophenol	1790	1610	90	2	30	70 - 130
Diethyl phthalate	1790	1520	85	0.8	30	70 - 130
4-Chlorophenyl-phenylether	1790	1490	83	2	30	70 - 130
Fluorene	1790	1560	87	6	30	70 - 130
4-Nitroaniline	1790	1540	86	0.8	30	70 - 130
4,6-Dinitro-2-methylphenol	1790	1290	72	7	30	70 - 130
Carbazole	1790	1720	96	4	30	70 - 130
N-Nitrosodiphenylamine	1790	1650	92	2	30	20 - 160
Azobenzene	1790	1660	92	3	30	70 - 130
4-Bromophenyl-phenylether	1790	1710	95	2	30	70 - 130
Hexachlorobenzene	1790	1700	95	0.7	30	70 - 130
Pentachlorophenol	1790	1510	84	3	30	20 - 160
Phenanthrene	1790	2050	92	22	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Anthracene	1790	1740	92	9	30	70 - 130
Di-n-butyl phthalate	1790	1560	87	0.6	30	70 - 130
Fluoranthene	1790	2100	91	24	30	70 - 130
Pyrene	1790	2270	105	20	30	70 - 130
Butylbenzylphthalate	1790	1690	94	0.8	30	70 - 130
Benzo[a]anthracene	1790	1950	97	15	30	70 - 130
bis(2-ethylhexyl)phthalate	1790	1730	97	9	30	70 - 130
Chrysene	1790	2140	107	14	30	70 - 130
Di-n-octyl phthalate	1790	1790	100	4	30	70 - 130
Benzo[b]fluoranthene	1790	2090	106	13	30	70 - 130
Benzo[k]fluoranthene	1790	1830	91	5	30	70 - 130
Benzo[a]pyrene	1790	2080	105	14	30	70 - 130
Indeno(1,2,3-cd)pyrene	1790	1570	82	8	30	70 - 130
Dibenzo(a,h)anthracene	1790	1590	86	8	30	70 - 130
Benzo[ghi]perylene	1790	1430	74	16	30	70 - 130

Data File : D:\E\DATA15\DEC15\E1229\E9658.D
Acq On : 29 Dec 2015 15:23
Sample : B5L2403-MSD1
Misc : SOIL
MS Integration Params: rteint.p
Quant Time: Jan 6 16:55 2016

Vial: 7
Operator: JMM
Inst : GC/MS E
Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Lists compounds like 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12, Perylene-d12.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Lists compounds like 2-Fluorophenol, Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, Terphenyl-d14.

Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Lists various compounds like Pyridine, N-Nitrosodimethylamine, Aniline, Phenol, bis(2-Chloroethyl)ether, 2-Chlorophenol, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzyl alcohol, 1,2-Dichlorobenzene, 2-Methylphenol, bis(2-chloroisopropyl)ethe, 3&4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, bis(2-Chloroethoxy)methane, 2,4-Dichlorophenol, 1,2,4-Trichlorobenzene, Naphthalene, 4-Chloroaniline, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene.

Data File : D:\E\DATA15\DEC15\E1229\E9658.D  
 Acq On : 29 Dec 2015 15:23  
 Sample : B5L2403-MSD1  
 Misc : SOIL  
 MS Integration Params: rteint.p  
 Quant Time: Jan 6 16:55 2016

Vial: 7  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Wed Jan 06 09:13:41 2016  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

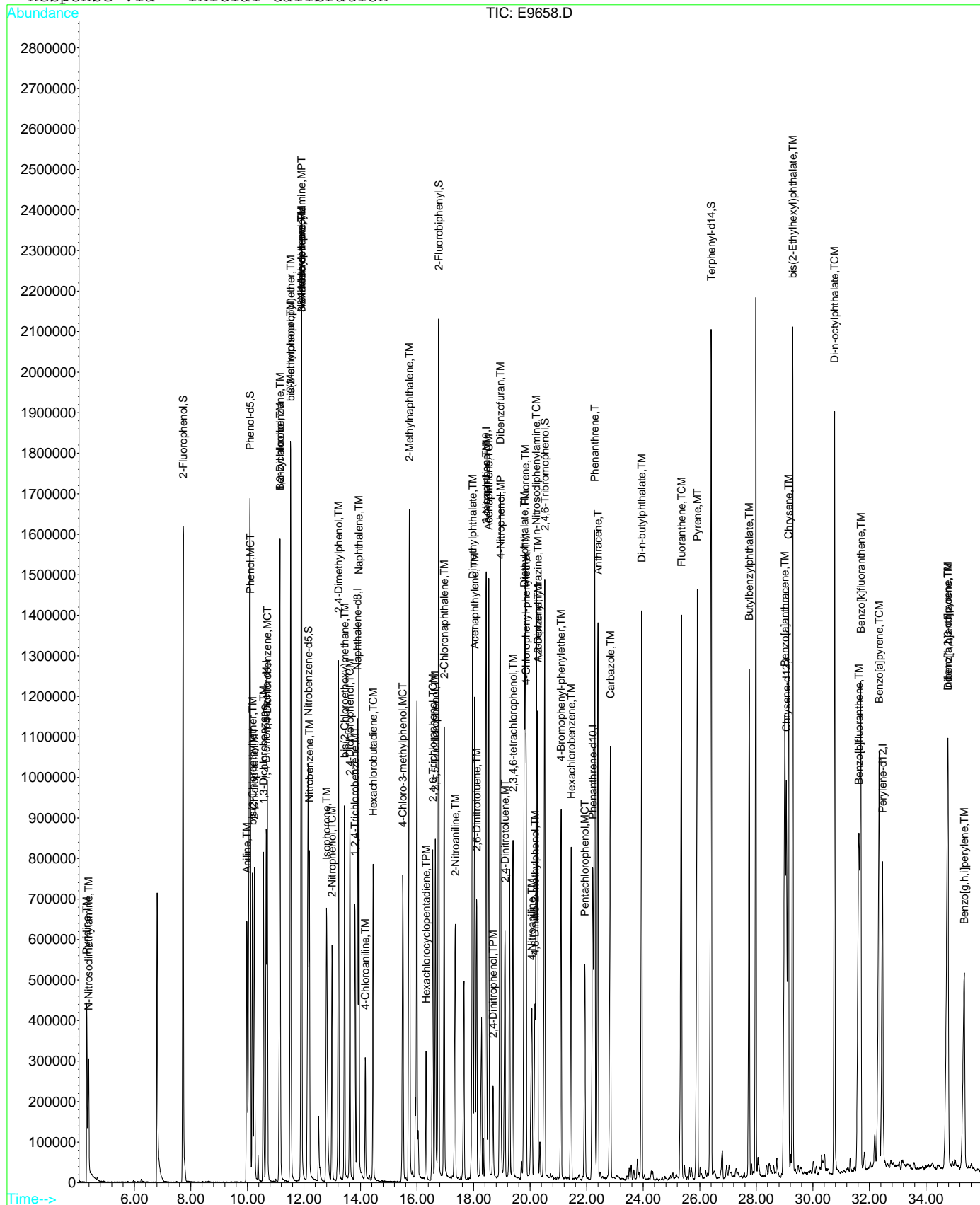
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) 2,3,4,6-tetrachlorophenol	19.39	232	241350	44.89	ul/l	97
56) Diethylphthalate	19.79	149	950026	42.52	ul/l	100
57) 4-Chlorophenyl-phenylether	19.86	204	418622	41.66	ul/l	94
58) Fluorene	19.83	166	962532	43.63	ul/l	97
59) 4-Nitroaniline	20.06	138	286521	42.98	ul/l	97
62) 4,6-Dinitro-2-methylphenol	20.16	198	157533	36.06	ul/l	98
63) Carbazole	22.84	167	1221674	47.86	ul/l	99
64) n-Nitrosodiphenylamine	20.22	169	774226	45.91	ul/l	98
65) 1,2-Diphenylhydrazine	20.27	77	1346671	46.23	ul/l	87
66) Azobenzene	20.27	77	1346671	46.22	ul/l	87
67) 4-Bromophenyl-phenylether	21.10	248	259341	47.64	ul/l	96
68) Hexachlorobenzene	21.45	284	293078	47.50	ul/l #	71
70) Pentachlorophenol	21.94	266	169720	42.16	ul/l	96
71) Phenanthrene	22.28	178	1525014	57.07	ul/l	99
72) Anthracene	22.40	178	1302092	48.51	ul/l	98
73) Di-n-butylphthalate	23.95	149	1583796	43.52	ul/l	99
74) Fluoranthene	25.35	202	1656768	58.47	ul/l	97
77) Pyrene	25.92	202	1646940	63.32	ul/l	97
79) Butylbenzylphthalate	27.75	149	724055	47.10	ul/l	95
81) Benzo[a]anthracene	29.01	228	1450372	54.51	ul/l	98
82) bis(2-Ethylhexyl)phthalate	29.29	149	1040300	48.26	ul/l	97
83) Chrysene	29.14	228	1403081	59.81	ul/l	98
85) Di-n-octylphthalate	30.77	149	1739899	49.91	ul/l	98
86) Benzo[b]fluoranthene	31.63	252	1354683	58.25	ul/l	94
87) Benzo[k]fluoranthene	31.69	252	1221263m	55.89	ul/l	
88) Benzo[a]pyrene	32.34	252	1287673	58.11	ul/l	93
89) Indeno[1,2,3-cd]pyrene	34.76	276	1059346	43.68	ul/l	75
90) Dibenz[a,h]anthracene	34.78	278	916724	44.45	ul/l	90
91) Benzo[g,h,i]perylene	35.36	276	775921	39.87	ul/l	87

Data File : D:\E\DATA15\DEC15\E1229\E9658.D  
Acq On : 29 Dec 2015 15:23  
Sample : B5L2403-MSD1  
Misc : SOIL  
MS Integration Params: rteint.p  
Quant Time: Jan 6 16:55 2016

Vial: 7  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Wed Jan 06 09:13:41 2016  
Response via : Initial Calibration





## LCS / LCS DUPLICATE RECOVERY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1010	61	20 - 160
N-Nitrosodimethylamine	1670	1050	63	20 - 160
Aniline	1670	1000	60	20 - 160
Phenol	1670	1320	79	20 - 160
bis(2-chloroethyl)ether	1670	1230	74	70 - 130
2-Chlorophenol	1670	1330	80	70 - 130
1,3-Dichlorobenzene	1670	1280	77	70 - 130
1,4-Dichlorobenzene	1670	1280	77	70 - 130
Benzyl alcohol	1670	1290	78	20 - 160
1,2-Dichlorobenzene	1670	1310	78	70 - 130
2-Methylphenol	1670	1320	79	20 - 160
bis(2-chloroisopropyl)ether	1670	1230	74	70 - 130
3 & 4-Methylphenol	1670	1340	81	20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77	70 - 130
Hexachloroethane	1670	1290	78	20 - 160
Nitrobenzene	1670	1390	83	70 - 130
Isophorone	1670	1330	80	70 - 130
2-Nitrophenol	1670	1410	84	70 - 130
2,4-Dimethylphenol	1670	1310	78	70 - 130
bis(2-chloroethoxy)methane	1670	1370	82	70 - 130
2,4-Dichlorophenol	1670	1440	86	70 - 130
1,2,4-Trichlorobenzene	1670	1410	85	70 - 130
Naphthalene	1670	1380	83	70 - 130
4-Chloroaniline	1670	424	25 *	70 - 130
Hexachlorobutadiene	1670	1380	83	70 - 130
4-Chloro-3-methylphenol	1670	1430	86	70 - 130
2-Methylnaphthylene	1670	1380	83	70 - 130
Hexachlorocyclopentadiene	1670	1230	74	20 - 160



## LCS / LCS DUPLICATE RECOVERY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1460	87	70 - 130
2,4,5-Trichlorophenol	1670	1470	88	70 - 130
2-Chloronaphthalene	1670	1320	79	70 - 130
2-Nitroaniline	1670	1480	89	70 - 130
Dimethylphthalate	1670	1530	92	70 - 130
Acenaphthylene	1670	1440	87	70 - 130
3-Nitroaniline	1670	1060	64 *	70 - 130
Acenaphthene	1670	1420	85	70 - 130
2,4-Dinitrophenol	1670	891	53	20 - 160
4-Nitrophenol	1670	1660	99	20 - 160
Dibenzofuran	1670	1540	92	70 - 130
2,6-Dinitrotoluene	1670	1500	90	70 - 130
2,4-Dinitrotoluene	1670	1600	96	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1490	89	70 - 130
Diethyl phthalate	1670	1470	88	70 - 130
4-Chlorophenyl-phenylether	1670	1410	85	70 - 130
Fluorene	1670	1440	86	70 - 130
4-Nitroaniline	1670	1460	88	70 - 130
4,6-Dinitro-2-methylphenol	1670	1320	79	70 - 130
Carbazole	1670	1530	92	70 - 130
N-Nitrosodiphenylamine	1670	1510	90	20 - 160
Azobenzene	1670	1480	88	70 - 130
4-Bromophenyl-phenylether	1670	1590	96	70 - 130
Hexachlorobenzene	1670	1580	95	70 - 130
Pentachlorophenol	1670	1360	82	20 - 160
Phenanthrene	1670	1510	90	70 - 130
Anthracene	1670	1510	90	70 - 130
Di-n-butyl phthalate	1670	1470	88	70 - 130





## LCS / LCS DUPLICATE RECOVERY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1450	87	70 - 130
Pyrene	1670	1650	99	70 - 130
Butylbenzylphthalate	1670	1640	98	70 - 130
Benzo[a]anthracene	1670	1580	95	70 - 130
bis(2-ethylhexyl)phthalate	1670	1630	98	70 - 130
Chrysene	1670	1720	104	70 - 130
Di-n-octyl phthalate	1670	1630	98	70 - 130
Benzo[b]fluoranthene	1670	1700	102	70 - 130
Benzo[k]fluoranthene	1670	1620	97	70 - 130
Benzo[a]pyrene	1670	1720	103	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1760	106	70 - 130
Dibenzo(a,h)anthracene	1670	1780	107	70 - 130
Benzo[ghi]perylene	1670	1770	106	70 - 130

\* Values outside of QC limits

Data File : D:\E\DATA15\DEC15\E1229\E9653.D  
 Acq On : 29 Dec 2015 11:42  
 Sample : B5L2403-BS1  
 Misc : SOIL

Vial: 2  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 7 8:00 2016

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Wed Jan 06 09:13:41 2016

Response via : Initial Calibration

DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.67	152	292306	40.00	ul/l	-0.11
21) Naphthalene-d8	13.90	136	1198847	40.00	ul/l	-0.12
37) Acenaphthene-d10	18.46	164	540842	40.00	ul/l	-0.14
61) Phenanthrene-d10	22.22	188	900088	40.00	ul/l	-0.14
75) Chrysene-d12	29.06	240	877431	40.00	ul/l	-0.15
84) Perylene-d12	32.46	264	784411	40.00	ul/l	-0.15

## System Monitoring Compounds

4) 2-Fluorophenol	7.74	112	1083418	97.87	ul/l	-0.05
Spiked Amount	120.000	Range 30 - 130	Recovery =	81.56%		
7) Phenol-d5	10.09	99	1769175	108.35	ul/l	-0.06
Spiked Amount	120.000	Range 30 - 130	Recovery =	90.29%		
22) Nitrobenzene-d5	12.16	82	1113195	92.20	ul/l	-0.11
Spiked Amount	100.000	Range 30 - 130	Recovery =	92.20%		
42) 2-Fluorobiphenyl	16.78	172	1604112	89.98	ul/l	-0.12
Spiked Amount	100.000	Range 30 - 130	Recovery =	89.98%		
60) 2,4,6-Tribromophenol	20.52	330	454057	137.18	ul/l	-0.12
Spiked Amount	120.000	Range 30 - 130	Recovery =	114.32%		
78) Terphenyl-d14	26.41	244	1876233	111.80	ul/l	-0.12
Spiked Amount	100.000	Range 30 - 130	Recovery =	111.80%		

## Target Compounds

						Qvalue
2) Pyridine	4.34	79	368486	30.41	ul/l	95
3) N-Nitrosodimethylamine	4.41	74	320100	31.57	ul/l	95
5) Benzaldehyde	9.99	77	7665	5.01	ul/l	# 1
6) Aniline	9.99	93	656590	30.14	ul/l	91
8) Phenol	10.12	94	704124	39.60	ul/l	90
9) bis(2-Chloroethyl)ether	10.19	93	576910	37.03	ul/l	98
10) 2-Chlorophenol	10.26	128	487229	39.80	ul/l	95
11) 1,3-Dichlorobenzene	10.57	146	451700	38.45	ul/l	98
12) 1,4-Dichlorobenzene	10.72	146	472774	38.45	ul/l	99
13) Benzyl alcohol	11.16	79	452338	38.81	ul/l	89
14) 1,2-Dichlorobenzene	11.17	146	471170	39.20	ul/l	98
15) 2-Methylphenol	11.54	108	488428	39.64	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.54	45	1172231	36.98	ul/l	# 73
17) Acetophenone	11.92	105	4711	0.30	ul/l	# 1
18) 3&4-Methylphenol	11.92	108	555769	40.28	ul/l	97
19) N-Nitroso-di-n-propylamine	11.92	70	476847	38.56	ul/l	91
20) Hexachloroethane	11.92	117	213222	38.82	ul/l	93
23) Nitrobenzene	12.21	77	570728	41.56	ul/l	93
24) Isophorone	12.81	82	1160873	39.90	ul/l	99
25) 2-Nitrophenol	13.00	139	272315	42.19	ul/l	97
26) 2,4-Dimethylphenol	13.22	107	422760	39.20	ul/l	98
27) Benzoic Acid	13.23	122	433149	71.54	ul/l	# 11
28) bis(2-Chloroethoxy)methane	13.45	93	682084	41.11	ul/l	98
29) 2,4-Dichlorophenol	13.64	162	364046	43.11	ul/l	98
30) 1,2,4-Trichlorobenzene	13.81	180	358975	42.30	ul/l	99
31) Naphthalene	13.95	128	1315719	41.28	ul/l	100
32) 4-Chloroaniline	14.18	127	184093	12.73	ul/l	99
33) Hexachlorobutadiene	14.46	225	187912	41.30	ul/l	# 59
35) 4-Chloro-3-methylphenol	15.50	107	392653	42.87	ul/l	99
36) 2-Methylnaphthalene	15.73	142	873766	41.38	ul/l	93
39) Hexachlorocyclopentadiene	16.33	237	166334	36.81	ul/l	95
40) 2,4,6-Trichlorophenol	16.56	196	245269	43.74	ul/l	98
41) 2,4,5-Trichlorophenol	16.66	196	258736	44.13	ul/l	98
43) 1,1'-Biphenyl	16.96	154	5987	0.25	ul/l	# 1
44) 2-Chloronaphthalene	16.97	162	741296	39.48	ul/l	98
45) 2-Nitroaniline	17.36	65	308550	44.54	ul/l	90
46) Dimethylphthalate	17.98	163	928970	46.04	ul/l	99
47) Acenaphthylene	18.05	152	1237190	43.26	ul/l	98
48) 3-Nitroaniline	18.45	138	218682	31.82	ul/l	97
49) Acenaphthene	18.55	153	755305	42.50	ul/l	98
50) 2,4-Dinitrophenol	18.70	184	70854	26.72	ul/l	99

(#)= qualifier out of range (m) = manual integration

E9653.D SVE81208.M Wed Jan 13 12:57:08 2016

Data File : D:\E\DATA15\DEC15\E1229\E9653.D

Vial: 2

Acq On : 29 Dec 2015 11:42

Operator: JMM

Sample : B5L2403-BS1

Inst : GC/MS E

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 7 8:00 2016

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Wed Jan 06 09:13:41 2016

Response via : Initial Calibration

DataAcq Meth : SVE81208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 4-Nitrophenol	18.96	109	93967	49.67	ul/l #	1
52) Dibenzofuran	18.94	168	1097765	46.12	ul/l #	59
53) 2,6-Dinitrotoluene	18.12	165	229488	45.14	ul/l	98
54) 2,4-Dinitrotoluene	19.12	165	304367	48.03	ul/l	97
55) 2,3,4,6-tetrachlorophenol	19.40	232	229297	44.57	ul/l	97
56) Diethylphthalate	19.79	149	942868	44.10	ul/l	100
57) 4-Chlorophenyl-phenylether	19.87	204	407048	42.34	ul/l	95
58) Fluorene	19.83	166	912475	43.23	ul/l	98
59) 4-Nitroaniline	20.07	138	279512	43.82	ul/l	98
62) 4,6-Dinitro-2-methylphenol	20.17	198	173950	39.62	ul/l	98
63) Carbazole	22.85	167	1155941	45.93	ul/l	99
64) n-Nitrosodiphenylamine	20.23	169	752187	45.24	ul/l	98
65) 1,2-Diphenylhydrazine	20.27	77	1271324	44.27	ul/l	86
66) Azobenzene	20.27	77	1271324	44.25	ul/l	86
67) 4-Bromophenyl-phenylether	21.10	248	256618	47.80	ul/l	97
68) Hexachlorobenzene	21.46	284	289051	47.51	ul/l #	70
70) Pentachlorophenol	21.94	266	162152	40.85	ul/l	96
71) Phenanthrene	22.29	178	1190417	45.18	ul/l	99
72) Anthracene	22.40	178	1195187	45.16	ul/l	98
73) Di-n-butylphthalate	23.95	149	1581409	44.07	ul/l	99
74) Fluoranthene	25.35	202	1215411	43.50	ul/l	96
77) Pyrene	25.92	202	1222948	49.50	ul/l	95
79) Butylbenzylphthalate	27.76	149	717616	49.14	ul/l	95
81) Benzo[a]anthracene	29.01	228	1197917	47.40	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.29	149	998463	48.76	ul/l	97
83) Chrysene	29.13	228	1153144	51.75	ul/l	98
85) Di-n-octylphthalate	30.77	149	1726477	49.02	ul/l	98
86) Benzo[b]fluoranthene	31.62	252	1195614	50.89	ul/l	93
87) Benzo[k]fluoranthene	31.69	252	1074046	48.65	ul/l	93
88) Benzo[a]pyrene	32.34	252	1156450	51.66	ul/l	93
89) Indeno[1,2,3-cd]pyrene	34.77	276	1295613	52.88	ul/l	75
90) Dibenz[a,h]anthracene	34.79	278	1112088	53.38	ul/l	89
91) Benzo[g,h,i]perylene	35.38	276	1046869	53.24	ul/l	88

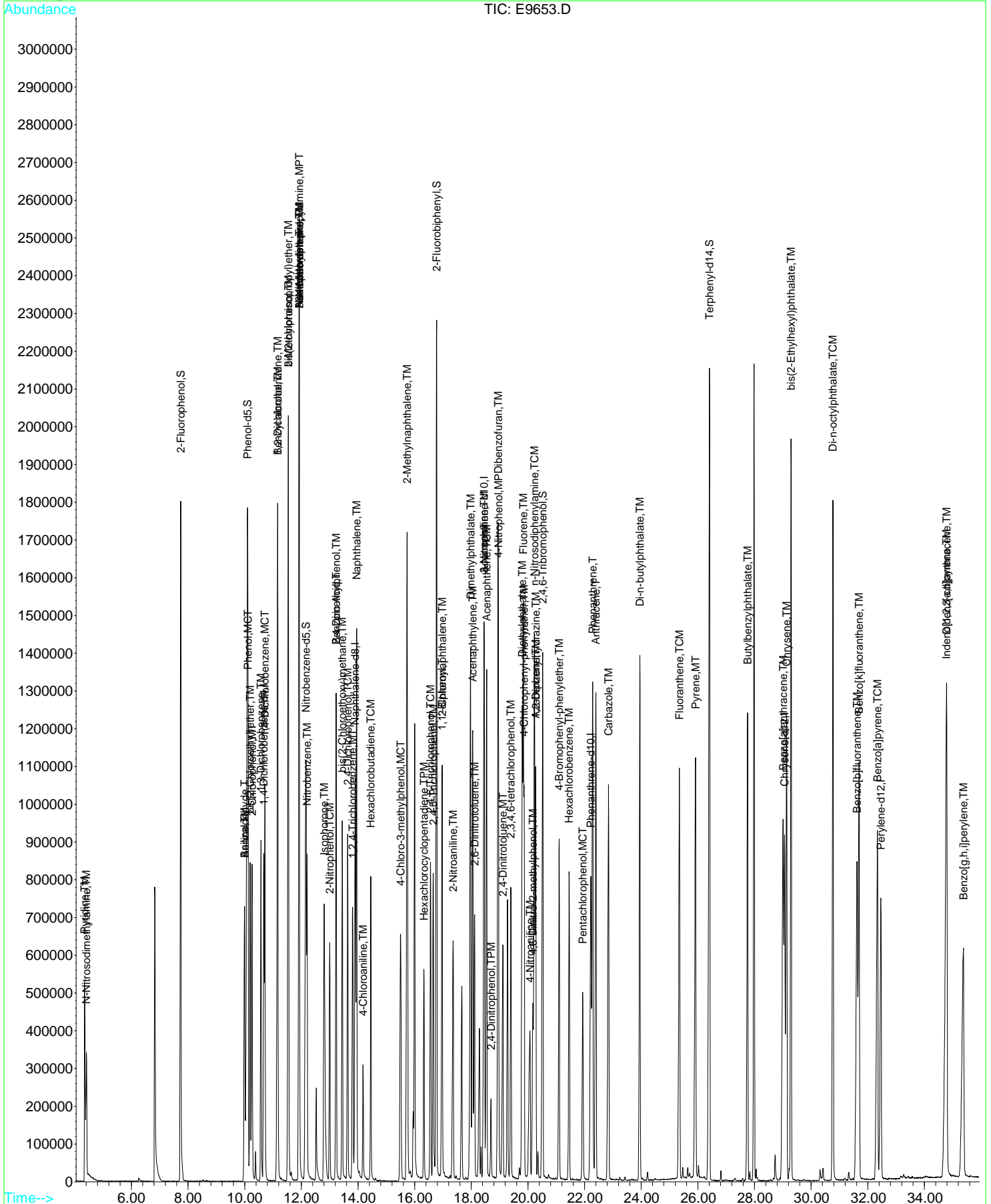
(#) = qualifier out of range (m) = manual integration  
 E9653.D SVE81208.M Wed Jan 13 12:57:08 2016

Data File : D:\E\DATA15\DEC15\E1229\E9653.D  
Acq On : 29 Dec 2015 11:42  
Sample : B5L2403-BS1  
Misc : SOIL  
MS Integration Params: rteint.p  
Quant Time: Jan 7 8:00 2016

Vial: 2  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration





## METHOD BLANK SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
Work Order: 1502323  
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2403-BLK1	Batch:	B5L2403
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
EP-18	1502323-01	E9636.D	12/28/2015 15:48
LCS	B5L2403-BS1	E9653.D	12/29/2015 11:42
Matrix Spike	B5L2403-MS1	E9657.D	12/29/2015 14:39
Matrix Spike Dup	B5L2403-MSD1	E9658.D	12/29/2015 15:23



## INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory: Accredited Analytical Resources LLC	Work Order: 1502323
Client: BRINKERHOFF ENVIRONMENTAL	Project: 255 East 138th Street, Bronx, NY
Lab File ID: E9451.D	Injection Date: 12/08/15
Instrument ID: GC/MS E	Injection Time: 10:44
Sequence: S5L0816	Lab Sample ID: S5L0816-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	54.8	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.344	PASS
127	40 - 60% of 198	48.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.39	PASS
275	10 - 30% of 198	19.9	PASS
365	1 - 100% of 198	1.82	PASS
441	0.01 - 100% of 443	74.6	PASS
442	40 - 100% of 198	79.9	PASS
443	17 - 23% of 442	19.1	PASS

### Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S5L0816-CAL1	E9454.D	12/08/2015	12:37:00
Cal Standard	S5L0816-CAL2	E9455.D	12/08/2015	15:04:00
Cal Standard	S5L0816-CAL3	E9456.D	12/08/2015	15:48:00
Cal Standard	S5L0816-CAL4	E9457.D	12/08/2015	16:33:00
Cal Standard	S5L0816-CAL5	E9458.D	12/08/2015	18:02:00
Cal Standard	S5L0816-CAL6	E9459.D	12/08/2015	18:47:00



## INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	E9632.D	Injection Date:	12/28/15
Instrument ID:	GC/MS E	Injection Time:	11:52
Sequence:	S5L2803	Lab Sample ID:	S5L2803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	51	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.0853	PASS
127	40 - 60% of 198	47.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.56	PASS
275	10 - 30% of 198	21	PASS
365	1 - 100% of 198	1.95	PASS
441	0.01 - 100% of 443	69.7	PASS
442	40 - 100% of 198	92	PASS
443	17 - 23% of 442	19.9	PASS

### Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2803-CCV1	E9634.D	12/28/2015	14:20:00
EP-18	1502323-01	E9636.D	12/28/2015	15:48:00



## INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	E9649.D	Injection Date:	12/29/15
Instrument ID:	GC/MS E	Injection Time:	09:09
Sequence:	S5L2909	Lab Sample ID:	S5L2909-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	57.2	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.431	PASS
127	40 - 60% of 198	49.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.48	PASS
275	10 - 30% of 198	19.8	PASS
365	1 - 100% of 198	1.92	PASS
441	0.01 - 100% of 443	72.1	PASS
442	40 - 100% of 198	81.3	PASS
443	17 - 23% of 442	19.3	PASS

### Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2909-CCV1	E9651.D	12/29/2015	10:13:00
Blank	B5L2403-BLK1	E9652.D	12/29/2015	10:58:00
LCS	B5L2403-BS1	E9653.D	12/29/2015	11:42:00
Matrix Spike	B5L2403-MS1	E9657.D	12/29/2015	14:39:00
Matrix Spike Dup	B5L2403-MSD1	E9658.D	12/29/2015	15:23:00





## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Sequence: S5L2803

Instrument: GC/MS E

Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S5L2803-CCV1)</b>			<i>Lab File ID: E9634.D</i>		<i>Analyzed: 12/28/15 14:20</i>				
1,4-Dichlorobenzene-d4	320304	10.63	290369	10.77	110	50 - 200	-0.1400	+/-0.50	
Naphthalene-d8	1424146	13.87	1273176	14.01	112	50 - 200	-0.1400	+/-0.50	
Acenaphthene-d10	728932	18.42	607041	18.58	120	50 - 200	-0.1600	+/-0.50	
Phenanthrene-d10	1218561	22.19	1085725	22.35	112	50 - 200	-0.1600	+/-0.50	
Chrysene-d12	1350692	29.03	1193449	29.19	113	50 - 200	-0.1600	+/-0.50	
Perylene-d12	1238986	32.44	1132813	32.6	109	50 - 200	-0.1600	+/-0.50	
<b>EP-18 (1502323-01)</b>			<i>Lab File ID: E9636.D</i>		<i>Analyzed: 12/28/15 15:48</i>				
1,4-Dichlorobenzene-d4	233809	10.62	320304	10.63	73	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	941338	13.84	1424146	13.87	66	50 - 200	-0.0300	+/-0.50	
Acenaphthene-d10	440251	18.4	728932	18.42	60	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	779829	22.17	1218561	22.19	64	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	800841	29	1350692	29.03	59	50 - 200	-0.0300	+/-0.50	
Perylene-d12	693120	32.4	1238986	32.44	56	50 - 200	-0.0400	+/-0.50	

\* Values outside of QC limits



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1502323  
 Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2909

Instrument: GC/MS E  
 Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S5L2909-CCV1 )</b>			<i>Lab File ID: E9651.D</i>		<i>Analyzed: 12/29/15 10:13</i>				
1,4-Dichlorobenzene-d4	369444	10.67	290369	10.77	127	50 - 200	-0.1000	+/-0.50	
Naphthalene-d8	1558236	13.9	1273176	14.01	122	50 - 200	-0.1100	+/-0.50	
Acenaphthene-d10	770825	18.46	607041	18.58	127	50 - 200	-0.1200	+/-0.50	
Phenanthrene-d10	1251272	22.23	1085725	22.35	115	50 - 200	-0.1200	+/-0.50	
Chrysene-d12	1283080	29.08	1193449	29.19	108	50 - 200	-0.1100	+/-0.50	
Perylene-d12	1155605	32.48	1132813	32.6	102	50 - 200	-0.1200	+/-0.50	
<b>Blank (B5L2403-BLK1 )</b>			<i>Lab File ID: E9652.D</i>		<i>Analyzed: 12/29/15 10:58</i>				
1,4-Dichlorobenzene-d4	285131	10.66	369444	10.67	77	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1115461	13.88	1558236	13.9	72	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	463810	18.43	770825	18.46	60	50 - 200	-0.0300	+/-0.50	
Phenanthrene-d10	790227	22.2	1251272	22.23	63	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	721280	29.03	1283080	29.08	56	50 - 200	-0.0500	+/-0.50	
Perylene-d12	622513	32.44	1155605	32.48	54	50 - 200	-0.0400	+/-0.50	
<b>LCS (B5L2403-BS1 )</b>			<i>Lab File ID: E9653.D</i>		<i>Analyzed: 12/29/15 11:42</i>				
1,4-Dichlorobenzene-d4	292306	10.67	369444	10.67	79	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1198847	13.9	1558236	13.9	77	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	540842	18.46	770825	18.46	70	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	900088	22.22	1251272	22.23	72	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	877431	29.06	1283080	29.08	68	50 - 200	-0.0200	+/-0.50	
Perylene-d12	784411	32.46	1155605	32.48	68	50 - 200	-0.0200	+/-0.50	



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1502323  
 Project: 255 East 138th Street, Bronx, NY  
 Sequence: S5L2909

Instrument: GC/MS E  
 Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Matrix Spike (B5L2403-MS1 )</b>			<i>Lab File ID: E9657.D</i>			<i>Analyzed: 12/29/15 14:39</i>			
1,4-Dichlorobenzene-d4	291778	10.66	369444	10.67	79	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1203542	13.89	1558236	13.9	77	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	560778	18.45	770825	18.46	73	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	922206	22.22	1251272	22.23	74	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	910199	29.06	1283080	29.08	71	50 - 200	-0.0200	+/-0.50	
Perylene-d12	807626	32.46	1155605	32.48	70	50 - 200	-0.0200	+/-0.50	
<b>Matrix Spike Dup (B5L2403-MSD1 )</b>			<i>Lab File ID: E9658.D</i>			<i>Analyzed: 12/29/15 15:23</i>			
1,4-Dichlorobenzene-d4	303386	10.66	369444	10.67	82	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1242104	13.89	1558236	13.9	80	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	565275	18.45	770825	18.46	73	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	912836	22.21	1251272	22.23	73	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	923724	29.06	1283080	29.08	72	50 - 200	-0.0200	+/-0.50	
Perylene-d12	776446	32.47	1155605	32.48	67	50 - 200	-0.0100	+/-0.50	

\* Values outside of QC limits

# SEMIVOLATILES CALIBRATION DATA



## INITIAL CALIBRATION DATA

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Calibration: 15L3101	Instrument: GC/MS E
	Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	5	1.53915	10	1.703113	20	1.658531	50	1.794804	80	1.635847	120	1.617796
N-Nitrosodimethylamine	5	1.382251	10	1.373187	20	1.365366	50	1.460436	80	1.360997	120	1.38308
Benzaldehyde	5	0.2285503	10	0.2036691	20	0.2060413	50	0.2081595	80	0.2352701	120	0.174864
Aniline	5	3.002193	10	3.122289	20	2.962451	50	3.112116	80	2.861858	120	2.824367
Phenol	5	2.333882	10	2.401207	20	2.328541	50	2.570111	80	2.461024	120	2.502686
bis(2-chloroethyl)ether	5	2.118317	10	2.123967	20	2.054896	50	2.237564	80	2.110608	120	2.145819
2-Chlorophenol	5	1.568865	10	1.601649	20	1.613884	50	1.770726	80	1.722803	120	1.773029
1,3-Dichlorobenzene	5	1.545847	10	1.594737	20	1.605233	50	1.690624	80	1.601359	120	1.606623
1,4-Dichlorobenzene	5	1.619102	10	1.666826	20	1.631806	50	1.781959	80	1.698838	120	1.69728
Benzyl alcohol	5	1.467168	10	1.568421	20	1.554401	50	1.688912	80	1.63631	120	1.653685
1,2-Dichlorobenzene	5	1.552009	10	1.57722	20	1.581319	50	1.734306	80	1.717112	120	1.707284
2-Methylphenol	5	1.517609	10	1.60394	20	1.608395	50	1.800682	80	1.770299	120	1.815733
bis(2-chloroisopropyl)ether	5	4.340521	10	4.365526	20	4.301871	50	4.611999	80	4.246727	120	4.161357
Acetophenone	5	2.133009	10	2.185694	20	2.15906	50	2.307564	80	2.14314	120	2.105208
3 & 4-Methylphenol	5	1.661166	10	1.759491	20	1.745145	50	1.990478	80	2.104287	120	2.068154
N-Nitroso-di-n-propylamine	5	1.61653	10	1.650104	20	1.615565	50	1.847	80	1.730202	120	1.695223
Hexachloroethane	5	0.6411937	10	0.6881093	20	0.7071209	50	0.8187025	80	0.8411522	120	0.8136648
Nitrobenzene	5	0.4547662	10	0.4555441	20	0.4547038	50	0.4794317	80	0.4502055	120	0.454226
Isophorone	5	0.9569958	10	1.00548	20	0.9902543	50	1.00632	80	0.9341171	120	0.9316134
2-Nitrophenol	5	0.1896846	10	0.2077569	20	0.2116518	50	0.2292024	80	0.2232656	120	0.2306483
2,4-Dimethylphenol	5	0.3378736	10	0.35309	20	0.3612525	50	0.382806	80	0.358286	120	0.3659696
Benzoic acid	5	8.172049E-02	10	0.1376852	20	0.1203557	50	0.1780554	80	0.2077277	120	0.2107771
bis(2-chloroethoxy)methane	5	0.5488537	10	0.5541547	20	0.5585324	50	0.583882	80	0.538683	120	0.537148
2,4-Dichlorophenol	5	0.2589855	10	0.2622204	20	0.2735317	50	0.3034988	80	0.2909646	120	0.3013024
1,2,4-Trichlorobenzene	5	0.2682229	10	0.2735765	20	0.2773269	50	0.3007205	80	0.2870618	120	0.2918823
Naphthalene	5	1.048414	10	1.077625	20	1.072037	50	1.128411	80	1.033109	120	1.021522



## INITIAL CALIBRATION DATA

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L3101	Instrument: GC/MS E
	Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chloroaniline	5	0.42041	10	0.4832116	20	0.4881352	50	0.5184541	80	0.4913196	120	0.4923874
Hexachlorobutadiene	5	0.1392722	10	0.1458439	20	0.148179	50	0.1616572	80	0.1552514	120	0.1606732
Caprolactam	5	0.2681355	10	0.276882	20	0.2762132	50	0.2094426	80	0.2562828	120	0.2383658
4-Chloro-3-methylphenol	5	0.2856953	10	0.3027615	20	0.3112233	50	0.3235012	80	0.3045366	120	0.3059183
2-Methylnaphthylene	5	0.6822746	10	0.6973963	20	0.7087975	50	0.7332036	80	0.6953516	120	0.710074
1,2,4,5-Tetrachlorobenzene	5	0.5533766	10	0.5705128	20	0.5760468	50	0.6185676	80	0.5909383	120	0.6554
Hexachlorocyclopentadiene	5	0.2678231	10	0.2884866	20	0.321718	50	0.375815	80	0.3574899	120	0.3940819
2,4,6-Trichlorophenol	5	0.3805615	10	0.3828522	20	0.403037	50	0.4387772	80	0.4204965	120	0.4626009
2,4,5-Trichlorophenol	5	0.3944331	10	0.4111293	20	0.4186406	50	0.4604775	80	0.4303722	120	0.4866561
2-Chloronaphthalene	5	1.266605	10	1.25635	20	1.327446	50	1.470926	80	1.437633	120	1.572915
1,1-Biphenyl	5	1.610129	10	1.632667	20	1.697928	50	1.864173	80	1.802051	120	1.909692
2-Nitroaniline	5	0.4833753	10	0.4966743	20	0.5064436	50	0.5396643	80	0.5059098	120	0.5423209
Dimethylphthalate	5	1.457655	10	1.459411	20	1.463143	50	1.51497	80	1.444333	120	1.61389
Acenaphthylene	5	2.040931	10	2.069056	20	2.073458	50	2.129018	80	2.052242	120	2.32579
3-Nitroaniline	5	0.4685075	10	0.4852433	20	0.5054947	50	0.5423621	80	0.5028059	120	0.5453104
Acenaphthene	5	1.265671	10	1.274217	20	1.298064	50	1.358233	80	1.278044	120	1.411893
2,4-Dinitrophenol	5	5.224555E-02	10	0.1023973	20	0.1589514	50	0.2188146	80	0.2260494	120	0.2574359
4-Nitrophenol	5	0.1108342	10	0.123156	20	0.1362577	50	0.1597199	80	0.1517553	120	0.1577422
Dibenzofuran	5	1.697003	10	1.732773	20	1.758965	50	1.841571	80	1.715308	120	1.817766
2,6-Dinitrotoluene	5	0.3487828	10	0.3638464	20	0.3729402	50	0.3950455	80	0.3718196	120	0.4036998
2,4-Dinitrotoluene	5	0.4231599	10	0.4565592	20	0.4782346	50	0.497287	80	0.4629113	120	0.4940846
2,3,4,6-Tetrachlorophenol	5	0.3484676	10	0.3574172	20	0.3727491	50	0.395116	80	0.3840913	120	0.4250094
Diethyl phthalate	5	1.486533	10	1.511295	20	1.53642	50	1.592293	80	1.602778	120	1.757957
4-Chlorophenyl-phenylether	5	0.6279428	10	0.6474188	20	0.6662449	50	0.7220955	80	0.7485478	120	0.8538235
Fluorene	5	1.395573	10	1.403839	20	1.454772	50	1.591491	80	1.66504	120	1.85634
4-Nitroaniline	5	0.427107	10	0.4799096	20	0.4802048	50	0.4931724	80	0.4555062	120	0.4945033



## INITIAL CALIBRATION DATA

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Calibration: 15L3101	Instrument: GC/MS E
	Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,6-Dinitro-2-methylphenol	5	9.430078E-02	10	0.1220238	20	0.1520919	50	0.1852523	80	0.1961587	120	0.2306814
Carbazole	5	1.093867	10	1.090071	20	1.114708	50	1.174155	80	1.100492	120	1.137229
N-Nitrosodiphenylamine	5	0.6729998	10	0.6619205	20	0.6754454	50	0.7724407	80	0.7881466	120	0.8627605
1,2-Diphenylhydrazine	5	1.170046	10	1.169719	20	1.170088	50	1.34737	80	1.357035	120	1.443677
Azobenzene	5	1.170046	10	1.169719	20	1.170088	50	1.349908	80	1.357035	120	1.443286
4-Bromophenyl-phenylether	5	0.2180538	10	0.2277433	20	0.2304819	50	0.2522573	80	0.2437852	120	0.2590858
Atrazine	5	0.2234693	10	0.2213787	20	0.2246683	50	0.2351469	80	0.2160458	120	0.2197665
Hexachlorobenzene	5	0.257309	10	0.2550757	20	0.2601156	50	0.2873116	80	0.2730381	120	0.2892419
Pentachlorophenol	5	0.1435978	10	0.166351	20	0.169752	50	0.1952226	80	0.1868641	120	0.1966678
Phenanthrene	5	1.130255	10	1.13959	20	1.149652	50	1.245787	80	1.162175	120	1.197804
Anthracene	5	1.118997	10	1.134673	20	1.157588	50	1.249324	80	1.181796	120	1.214611
Di-n-butyl phthalate	5	1.612098	10	1.574532	20	1.628775	50	1.676727	80	1.525947	120	1.549454
Fluoranthene	5	1.210453	10	1.229104	20	1.257582	50	1.302953	80	1.208798	120	1.241518
Benzidine	5	0.3282698	10	0.4551709	20	0.4752511	50	0.5275573	80	0.4647766	120	0.4576975
Pyrene	5	1.192049	10	1.186149	20	1.168838	50	1.196705	80	1.016686	120	0.9974205
Butylbenzylphthalate	5	0.707717	10	0.7041923	20	0.6916978	50	0.707493	80	0.5947493	120	0.5883364
3,3'-Dichlorobenzidine	5	0.4187818	10	0.4132044	20	0.4226942	50	0.4856956	80	0.4659313	120	0.4604398
Benzo[a]anthracene	5	1.152184	10	1.155441	20	1.173027	50	1.254641	80	1.103515	120	1.074586
bis(2-ethylhexyl)phthalate	5	0.9611369	10	0.9529653	20	0.9695747	50	0.9988955	80	0.8676118	120	0.8505036
Chrysene	5	1.031603	10	1.024806	20	1.035007	50	1.098416	80	0.9636753	120	0.941835
Di-n-octyl phthalate	5	1.799082	10	1.818631	20	1.800897	50	1.870236	80	1.697606	120	1.789049
Benzo[b]fluoranthene	5	1.120666	10	1.141941	20	1.140704	50	1.269669	80	1.230567	120	1.28475
Benzo[k]fluoranthene	5	1.029769	10	1.142228	20	1.061033	50	1.201501	80	1.107326	120	1.212838
Benzo[a]pyrene	5	1.084559	10	1.108805	20	1.115577	50	1.214624	80	1.131227	120	1.19479
Indeno(1,2,3-cd)pyrene	5	1.139434	10	1.154822	20	1.229532	50	1.375791	80	1.265644	120	1.331847
Dibenzo(a,h)anthracene	5	0.9407116	10	0.9655654	20	1.024617	50	1.191496	80	1.094383	120	1.157575



## INITIAL CALIBRATION DATA

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L3101	Instrument: GC/MS E
	Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Benzo[ghi]perylene	5	0.9842878	10	0.9624657	20	1.008112	50	1.096071	80	0.9795759	120	0.9852907
2-Fluorophenol	5	1.398929	10	1.449628	20	1.469413	50	1.630143	80	1.553181	120	1.587755
Phenol-d5	5	2.119871	10	2.170036	20	2.145153	50	2.376979	80	2.273034	120	2.321835
Nitrobenzene-d5	5	0.3787688	10	0.3998966	20	0.3975491	50	0.4281087	80	0.404179	120	0.4085052
2-Fluorobiphenyl	5	1.287942	10	1.281723	20	1.282045	50	1.375809	80	1.280685	120	1.402521
2,4,6-Tribromophenol	5	0.215628	10	0.2261293	20	0.243631	50	0.2598498	80	0.2501863	120	0.273346
Terphenyl-d14	5	0.7743981	10	0.7868737	20	0.7887995	50	0.8236989	80	0.7113199	120	0.7053893





## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Pyridine	1.658207	5.186556		
N-Nitrosodimethylamine	1.387553	2.650753		
Benzaldehyde	0.2094257	10.18397		
Aniline	2.980879	4.154315		
Phenol	2.432909	3.950489	CCC (20)	
bis(2-chloroethyl)ether	2.131862	2.813595		
2-Chlorophenol	1.675159	5.434495		
1,3-Dichlorobenzene	1.607404	2.907		
1,4-Dichlorobenzene	1.682635	3.48689	CCC (20)	
Benzyl alcohol	1.594816	5.068137		
1,2-Dichlorobenzene	1.644875	5.039123		
2-Methylphenol	1.68611	7.417098		
bis(2-chloroisopropyl)ether	4.338	3.521445		
Acetophenone	2.172279	3.290552		
3 & 4-Methylphenol	1.88812	9.996159		
N-Nitroso-di-n-propylamine	1.692437	5.204103	SPCC (0.05)	
Hexachloroethane	0.7516572	11.06284		
Nitrobenzene	0.4581462	2.313149		
Isophorone	0.9707968	3.54282		
2-Nitrophenol	0.2153683	7.24883	CCC (20)	
2,4-Dimethylphenol	0.3598796	4.116802		
Benzoic acid	0.1560536	33.0324		
bis(2-chloroethoxy)methane	0.5535423	3.084191		
2,4-Dichlorophenol	0.2817506	6.932197	CCC (20)	
1,2,4-Trichlorobenzene	0.2831318	4.321808		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.06352	3.617123		
4-Chloroaniline	0.4823196	6.785465		
Hexachlorobutadiene	0.1518128	5.842394	CCC (20)	
Caprolactam	0.2542203	10.335		
4-Chloro-3-methylphenol	0.305606	4.027731	CCC (20)	
2-Methylnaphthylene	0.7045163	2.459787		
1,2,4,5-Tetrachlorobenzene	0.5941404	6.255619		
Hexachlorocyclopentadiene	0.3342358	14.96636	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4147209	7.793669	CCC (20)	
2,4,5-Trichlorophenol	0.4336181	7.861681		
2-Chloronaphthalene	1.388646	9.067082		
1,1-Biphenyl	1.752773	7.091179		
2-Nitroaniline	0.512398	4.623245		
Dimethylphthalate	1.492234	4.315061		
Acenaphthylene	2.115083	5.087324		
3-Nitroaniline	0.5082873	6.021048		
Acenaphthene	1.314354	4.436869	CCC (20)	
2,4-Dinitrophenol	0.1693157	47.0455	SPCC (0.05)	
4-Nitrophenol	0.1399109	14.25964	SPCC (0.05)	
Dibenzofuran	1.760564	3.282351		
2,6-Dinitrotoluene	0.3760224	5.378757		
2,4-Dinitrotoluene	0.4687061	5.887402		
2,3,4,6-Tetrachlorophenol	0.3804751	7.270998		
Diethyl phthalate	1.581213	6.176164		
4-Chlorophenyl-phenylether	0.7110122	11.74623		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Fluorene	1.561176	11.5415		
4-Nitroaniline	0.4717339	5.504687		
4,6-Dinitro-2-methylphenol	0.1634181	30.83046		
Carbazole	1.11842	2.883975		
N-Nitrosodiphenylamine	0.7389522	11.02508	CCC (20)	
1,2-Diphenylhydrazine	1.276323	9.500392		
Azobenzene	1.27668	9.512935		
4-Bromophenyl-phenylether	0.2385679	6.598361		
Atrazine	0.2234126	2.907531		
Hexachlorobenzene	0.2703486	5.633917		
Pentachlorophenol	0.1764092	11.60545	CCC (20)	
Phenanthrene	1.170877	3.72115		
Anthracene	1.176165	4.199275		
Di-n-butyl phthalate	1.594589	3.477304		
Fluoranthene	1.241735	2.840818	CCC (20)	
Benzidine	0.4514539	14.6136		
Pyrene	1.126308	8.261972		
Butylbenzylphthalate	0.6656976	8.678608		
3,3'-Dichlorobenzidine	0.4444578	6.769861		
Benzo[a]anthracene	1.152232	5.396597		
bis(2-ethylhexyl)phthalate	0.933448	6.418901		
Chrysene	1.01589	5.518192		
Di-n-octyl phthalate	1.795917	3.128751	CCC (20)	
Benzo[b]fluoranthene	1.19805	6.033909		
Benzo[k]fluoranthene	1.125783	6.567704		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Benzo[a]pyrene	1.141597	4.513651	CCC (20)	
Indeno(1,2,3-cd)pyrene	1.249512	7.547432		
Dibenzo(a,h)anthracene	1.062391	9.632255		
Benzo[ghi]perylene	1.002634	4.792182		
2-Fluorophenol	1.514842	5.892087		
Phenol-d5	2.234485	4.680523		
Nitrobenzene-d5	0.4028346	3.984961		
2-Fluorobiphenyl	1.318454	4.207825		
2,4,6-Tribromophenol	0.2447951	8.706718		
Terphenyl-d14	0.7650799	6.134423		

\* Values outside of QC limits



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9634.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2803	Injection Date: 12/28/15
Lab Sample ID: S5L2803-CCV1	Injection Time: 14:20

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	42.3	1.658207	1.40287		-15.4	
N-Nitrosodimethylamine	A	50.0	40.9	1.387553	1.135157		-18.2	
Benzaldehyde	A	50.0	69.2	0.2094257	0.2896623		38.3	
Aniline	A	50.0	43.2	2.980879	2.577264		-13.5	
Phenol	A	50.0	45.2	2.432909	2.198049		-9.7	20
bis(2-chloroethyl)ether	A	50.0	44.8	2.131862	1.911839		-10.3	
2-Chlorophenol	A	50.0	46.1	1.675159	1.543161		-7.9	
1,3-Dichlorobenzene	A	50.0	46.8	1.607404	1.504686		-6.4	
1,4-Dichlorobenzene	A	50.0	46.4	1.682635	1.560892		-7.2	20
Benzyl alcohol	A	50.0	46.6	1.594816	1.487599		-6.7	
1,2-Dichlorobenzene	A	50.0	47.6	1.644875	1.567331		-4.7	
2-Methylphenol	A	50.0	47.9	1.68611	1.616027		-4.2	
bis(2-chloroisopropyl)ether	A	50.0	45.5	4.338	3.944131		-9.1	
Acetophenone	A	50.0	48.9	2.172279	2.122638		-2.3	
3 & 4-Methylphenol	A	50.0	50.3	1.88812	1.900927		0.7	
N-Nitroso-di-n-propylamine	A	50.0	48.4	1.692437	1.636605	0.05	-3.3	
Hexachloroethane	A	50.0	49.5	0.7516572	0.7444178		-1.0	
Nitrobenzene	A	50.0	47.0	0.4581462	0.4307463		-6.0	
Isophorone	A	50.0	45.7	0.9707968	0.8874079		-8.6	
2-Nitrophenol	A	50.0	48.9	0.2153683	0.2107874		-2.1	20
2,4-Dimethylphenol	A	50.0	47.1	0.3598796	0.3393051		-5.7	
Benzoic acid	L	50.0	41.5	0.1560536	0.1568631		0.5	
bis(2-chloroethoxy)methane	A	50.0	47.2	0.5535423	0.5222796		-5.6	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9634.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2803	Injection Date: 12/28/15
Lab Sample ID: S5L2803-CCV1	Injection Time: 14:20

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	49.2	0.2817506	0.277398		-1.5	20
1,2,4-Trichlorobenzene	A	50.0	47.9	0.2831318	0.2713143		-4.2	
Naphthalene	A	50.0	46.6	1.06352	0.9918579		-6.7	
4-Chloroaniline	A	50.0	47.8	0.4823196	0.4606264		-4.5	
Hexachlorobutadiene	A	50.0	47.0	0.1518128	0.1428483		-5.9	20
Caprolactam	A	50.0	51.7	0.2542203	0.2628646		3.4	
4-Chloro-3-methylphenol	A	50.0	48.1	0.305606	0.2941783		-3.7	20
2-Methylnaphthylene	A	50.0	45.6	0.7045163	0.6427116		-8.8	
1,2,4,5-Tetrachlorobenzene	A	50.0	47.0	0.5941404	0.5586222		-6.0	
Hexachlorocyclopentadiene	L	50.0	40.6	0.3342358	0.271256	0.05	-18.8	
2,4,6-Trichlorophenol	A	50.0	45.4	0.4147209	0.3766617		-9.2	20
2,4,5-Trichlorophenol	A	50.0	46.2	0.4336181	0.4008528		-7.6	
2-Chloronaphthalene	A	50.0	44.8	1.388646	1.244981		-10.3	
1,1-Biphenyl	A	50.0	47.7	1.752773	1.673192		-4.5	
2-Nitroaniline	A	50.0	44.9	0.512398	0.4601329		-10.2	
Dimethylphthalate	A	50.0	45.2	1.492234	1.348201		-9.7	
Acenaphthylene	A	50.0	43.2	2.115083	1.825993		-13.7	
3-Nitroaniline	A	50.0	48.0	0.5082873	0.4878381		-4.0	
Acenaphthene	A	50.0	44.3	1.314354	1.163464		-11.5	20
2,4-Dinitrophenol	L	50.0	47.3	0.1693157	0.2134454	0.05	26.1	
4-Nitrophenol	A	50.0	48.8	0.1399109	0.1366174	0.05	-2.4	
Dibenzofuran	A	50.0	45.3	1.760564	1.595759		-9.4	
2,6-Dinitrotoluene	A	50.0	46.7	0.3760224	0.3514435		-6.5	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9634.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2803	Injection Date: 12/28/15
Lab Sample ID: S5L2803-CCV1	Injection Time: 14:20

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		LIMIT (#)
		STD	CCV	ICAL	CCV	MIN (#)	CCV	
2,4-Dinitrotoluene	A	50.0	48.4	0.4687061	0.4532867		-3.3	
2,3,4,6-Tetrachlorophenol	A	50.0	46.8	0.3804751	0.3558258		-6.5	
Diethyl phthalate	A	50.0	44.7	1.581213	1.414529		-10.5	
4-Chlorophenyl-phenylether	A	50.0	43.9	0.7110122	0.6248967		-12.1	
Fluorene	A	50.0	44.8	1.561176	1.400301		-10.3	
4-Nitroaniline	A	50.0	46.4	0.4717339	0.4379536		-7.2	
4,6-Dinitro-2-methylphenol	L	50.0	43.1	0.1634181	0.1709301		4.6	
Carbazole	A	50.0	45.7	1.11842	1.021367		-8.7	
N-Nitrosodiphenylamine	A	50.0	46.3	0.7389522	0.6840836		-7.4	20
1,2-Diphenylhydrazine	A	50.0	45.6	1.276323	1.163611		-8.8	
Azobenzene	A	50.0	45.6	1.27668	1.163611		-8.9	
4-Bromophenyl-phenylether	A	50.0	47.5	0.2385679	0.2267461		-5.0	
Atrazine	A	50.0	36.8	0.2234126	0.1644143		-26.4	
Hexachlorobenzene	A	50.0	47.2	0.2703486	0.2553898		-5.5	
Pentachlorophenol	A	50.0	44.9	0.1764092	0.1584236		-10.2	20
Phenanthrene	A	50.0	45.8	1.170877	1.071923		-8.5	
Anthracene	A	50.0	45.8	1.176165	1.077964		-8.3	
Di-n-butyl phthalate	A	50.0	43.6	1.594589	1.391685		-12.7	
Fluoranthene	A	50.0	44.8	1.241735	1.112223		-10.4	20
Benzdine	A	50.0	49.3	0.4514539	0.4449032		-1.5	
Pyrene	A	50.0	45.1	1.126308	1.016443		-9.8	
Butylbenzylphthalate	A	50.0	44.3	0.6656976	0.5892979		-11.5	
3,3'-Dichlorobenzidine	A	50.0	52.0	0.4444578	0.4621128		4.0	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9634.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2803	Injection Date: 12/28/15
Lab Sample ID: S5L2803-CCV1	Injection Time: 14:20

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzo[a]anthracene	A	50.0	47.3	1.152232	1.090987		-5.3	
bis(2-ethylhexyl)phthalate	A	50.0	46.0	0.933448	0.8593468		-7.9	
Chrysene	A	50.0	49.1	1.01589	0.9967276		-1.9	
Di-n-octyl phthalate	A	50.0	44.2	1.795917	1.589225		-11.5	20
Benzo[b]fluoranthene	A	50.0	47.5	1.19805	1.137615		-5.0	
Benzo[k]fluoranthene	A	50.0	44.3	1.125783	0.9980277		-11.3	
Benzo[a]pyrene	A	50.0	45.9	1.141597	1.047543		-8.2	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.6	1.249512	1.139359		-8.8	
Dibenzo(a,h)anthracene	A	50.0	47.2	1.062391	1.003003		-5.6	
Benzo[ghi]perylene	A	50.0	44.4	1.002634	0.8895268		-11.3	
2-Fluorophenol	A	50.0	49.0	1.514842	1.485789		-1.9	
Phenol-d5	A	50.0	48.5	2.234485	2.165847		-3.1	
Nitrobenzene-d5	A	50.0	50.6	0.4028346	0.4073358		1.1	
2-Fluorobiphenyl	A	50.0	46.7	1.318454	1.231535		-6.6	
2,4,6-Tribromophenol	A	50.0	53.6	0.2447951	0.2623038		7.2	
Terphenyl-d14	A	50.0	49.5	0.7650799	0.7579309		-0.9	

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits



Data File : D:\E\DATA15\DEC15\E1228\E9634.D  
 Acq On : 28 Dec 2015 14:20  
 Sample : S5L2803-CCV1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jan 6 10:57 2016

Vial: 25  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Wed Jan 06 09:13:41 2016  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.63	152	320304	40.00	ul/l	-0.15
21) Naphthalene-d8	13.87	136	1424146	40.00	ul/l	-0.16
37) Acenaphthene-d10	18.42	164	728932	40.00	ul/l	-0.17
61) Phenanthrene-d10	22.19	188	1218561	40.00	ul/l	-0.18
75) Chrysene-d12	29.03	240	1350692	40.00	ul/l	-0.18
84) Perylene-d12	32.44	264	1238986	40.00	ul/l	-0.18

System Monitoring Compounds

4) 2-Fluorophenol	7.66	112	594880	49.04	ul/l	-0.13
Spiked Amount 120.000	Range 15 - 110		Recovery =	40.87%		
7) Phenol-d5	10.04	99	867162	48.46	ul/l	-0.12
Spiked Amount 120.000	Range 15 - 110		Recovery =	40.38%		
22) Nitrobenzene-d5	12.12	82	725132	50.56	ul/l	-0.15
Spiked Amount 100.000	Range 30 - 130		Recovery =	50.56%		
42) 2-Fluorobiphenyl	16.74	172	1122132	46.70	ul/l	-0.16
Spiked Amount 100.000	Range 15 - 110		Recovery =	46.70%		
60) 2,4,6-Tribromophenol	20.48	330	239002	53.58	ul/l	-0.17
Spiked Amount 120.000	Range 15 - 110		Recovery =	44.65%		
78) Terphenyl-d14	26.35	244	1279664	49.53	ul/l	-0.18
Spiked Amount 100.000	Range 30 - 130		Recovery =	49.53%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	4.27	79	561681	42.30	ul/l	94
3) N-Nitrosodimethylamine	4.34	74	454494	40.90	ul/l	94
5) Benzaldehyde	9.57	77	115975	69.16	ul/l	92
6) Aniline	9.96	93	1031885	43.23	ul/l	93
8) Phenol	10.07	94	880055	45.17	ul/l	98
9) bis(2-Chloroethyl)ether	10.16	93	765462	44.84	ul/l	94
10) 2-Chlorophenol	10.21	128	617851	46.06	ul/l	95
11) 1,3-Dichlorobenzene	10.54	146	602446	46.80	ul/l	99
12) 1,4-Dichlorobenzene	10.68	146	624950	46.38	ul/l	99
13) Benzyl alcohol	11.12	79	595605	46.64	ul/l	91
14) 1,2-Dichlorobenzene	11.13	146	627528	47.64	ul/l	99
15) 2-Methylphenol	11.51	108	647025	47.92	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.51	45	1579151	45.46	ul/l #	73
17) Acetophenone	11.77	105	849862	48.86	ul/l	94
18) 3&4-Methylphenol	11.89	108	761093	50.34	ul/l	98
19) N-Nitroso-di-n-propylamine	11.89	70	655264	48.35	ul/l	93
20) Hexachloroethane	11.89	117	298050	49.52	ul/l	94
23) Nitrobenzene	12.17	77	766807	47.01	ul/l	93
24) Isophorone	12.81	82	1579748	45.71	ul/l	98
25) 2-Nitrophenol	12.97	139	375240	48.94	ul/l	98
26) 2,4-Dimethylphenol	13.20	107	604025	47.14	ul/l	98
27) Benzoic Acid	13.75	122	279245m	41.47	ul/l	
28) bis(2-Chloroethoxy)methane	13.42	93	929753	47.18	ul/l	99
29) 2,4-Dichlorophenol	13.61	162	493819	49.23	ul/l	99
30) 1,2,4-Trichlorobenzene	13.78	180	482989	47.91	ul/l	99
31) Naphthalene	13.92	128	1765688	46.63	ul/l	98
32) 4-Chloroaniline	14.16	127	819999	47.75	ul/l	100
33) Hexachlorobutadiene	14.42	225	254296	47.05	ul/l #	60
34) Caprolactam	15.21	55	467947m	51.70	ul/l	
35) 4-Chloro-3-methylphenol	15.52	107	523691	48.13	ul/l	100
36) 2-Methylnaphthalene	15.70	142	1144144	45.61	ul/l	94
38) 1,2,4,5-tetrachlorobenzene	16.24	216	508997	47.01	ul/l	98
39) Hexachlorocyclopentadiene	16.30	237	247159	40.58	ul/l	97
40) 2,4,6-Trichlorophenol	16.54	196	343201	45.41	ul/l	98
41) 2,4,5-Trichlorophenol	16.65	196	365243	46.22	ul/l	99
43) 1,1'-Biphenyl	16.94	154	1524554	47.73	ul/l	96
44) 2-Chloronaphthalene	16.94	162	1134383	44.83	ul/l	98
45) 2-Nitroaniline	17.33	65	419257	44.90	ul/l	92
46) Dimethylphthalate	17.95	163	1228434	45.17	ul/l	99
47) Acenaphthylene	18.02	152	1663781	43.17	ul/l	99
48) 3-Nitroaniline	18.43	138	444501	47.99	ul/l	99

(#) = qualifier out of range (m) = manual integration  
 E9634.D SVE81208.M Fri Jan 08 13:30:18 2016

Data File : D:\E\DATA15\DEC15\E1228\E9634.D  
 Acq On : 28 Dec 2015 14:20  
 Sample : S5L2803-CCV1  
 Misc :

Vial: 25  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p  
 Quant Time: Jan 6 10:57 2016

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Wed Jan 06 09:13:41 2016  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81208

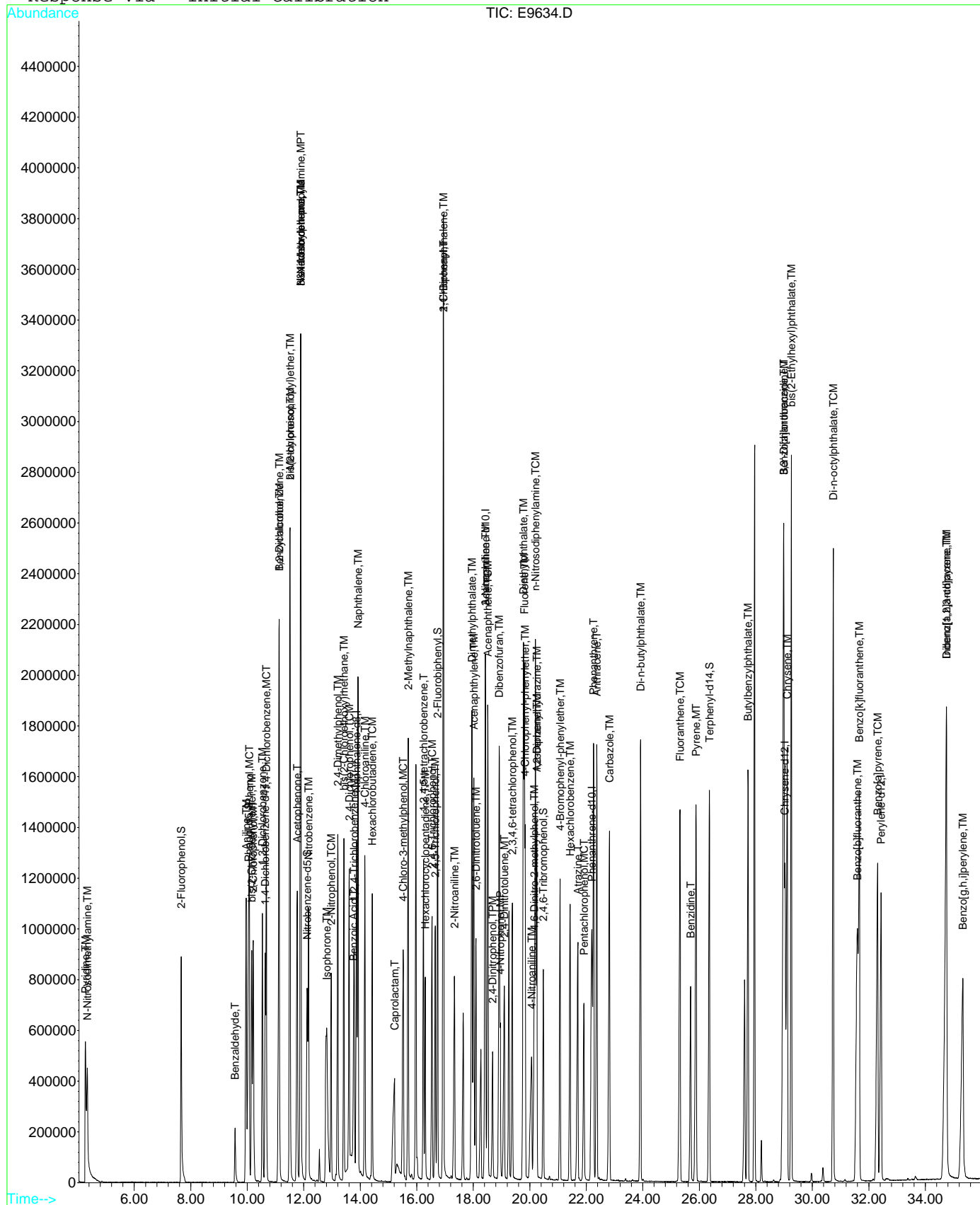
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.51	153	1060108	44.26	ul/l	99
50) 2,4-Dinitrophenol	18.68	184	194484	47.28	ul/l	95
51) 4-Nitrophenol	18.96	109	124481	48.82	ul/l #	1
52) Dibenzofuran	18.92	168	1454000	45.32	ul/l #	59
53) 2,6-Dinitrotoluene	18.10	165	320223	46.73	ul/l	99
54) 2,4-Dinitrotoluene	19.10	165	413019	48.36	ul/l	99
55) 2,3,4,6-tetrachlorophenol	19.38	232	324216	46.76	ul/l	97
56) Diethylphthalate	19.77	149	1288869	44.73	ul/l	99
57) 4-Chlorophenyl-phenylether	19.84	204	569384	43.94	ul/l	95
58) Fluorene	19.80	166	1275905	44.85	ul/l	97
59) 4-Nitroaniline	20.06	138	399048	46.42	ul/l	98
62) 4,6-Dinitro-2-methylphenol	20.15	198	260361	43.13	ul/l	98
63) Carbazole	22.82	167	1555748	45.66	ul/l	100
64) n-Nitrosodiphenylamine	20.20	169	1041997	46.29	ul/l	98
65) 1,2-Diphenylhydrazine	20.24	77	1772413	45.58	ul/l	84
66) Azobenzene	20.24	77	1772413	45.57	ul/l	84
67) 4-Bromophenyl-phenylether	21.07	248	345380	47.52	ul/l	96
68) Hexachlorobenzene	21.43	284	389010	47.23	ul/l #	70
69) Atrazine	21.70	58	250436	36.80	ul/l	95
70) Pentachlorophenol	21.91	266	241311	44.90	ul/l	98
71) Phenanthrene	22.26	178	1632755	45.77	ul/l	99
72) Anthracene	22.37	178	1641956	45.83	ul/l	99
73) Di-n-butylphthalate	23.92	149	2119817	43.64	ul/l	100
74) Fluoranthene	25.32	202	1694140	44.79	ul/l	97
76) Benzidine	25.69	184	751159	49.27	ul/l	99
77) Pyrene	25.88	202	1716126	45.12	ul/l	96
79) Butylbenzylphthalate	27.72	149	994950	44.26	ul/l	96
80) 3,3'-Dichlorobenzidine	28.99	252	780215	51.99	ul/l	99
81) Benzo[a]anthracene	28.98	228	1841984	47.34	ul/l	98
82) bis(2-Ethylhexyl)phthalate	29.26	149	1450891	46.03	ul/l	98
83) Chrysene	29.11	228	1682840	49.06	ul/l	98
85) Di-n-octylphthalate	30.74	149	2461284	44.25	ul/l	98
86) Benzo[b]fluoranthene	31.60	252	1761861	47.48	ul/l	94
87) Benzo[k]fluoranthene	31.66	252	1545678m	44.33	ul/l	
88) Benzo[a]pyrene	32.31	252	1622364	45.88	ul/l	93
89) Indeno[1,2,3-cd]pyrene	34.74	276	1764562	45.59	ul/l	76
90) Dibenz[a,h]anthracene	34.75	278	1553383	47.20	ul/l	91
91) Benzo[g,h,i]perylene	35.33	276	1377639	44.36	ul/l	88

Data File : D:\E\DATA15\DEC15\E1228\E9634.D  
Acq On : 28 Dec 2015 14:20  
Sample : S5L2803-CCV1  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 10:57 2016

Vial: 25  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration





## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9651.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2909	Injection Date: 12/29/15
Lab Sample ID: S5L2909-CCV1	Injection Time: 10:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	40.9	1.658207	1.356062		-18.2	
N-Nitrosodimethylamine	A	50.0	40.3	1.387553	1.119349		-19.3	
Benzaldehyde	A	50.0	51.6	0.2094257	0.2161648		3.2	
Aniline	A	50.0	40.7	2.980879	2.425922		-18.6	
Phenol	A	50.0	41.5	2.432909	2.021254		-16.9	20
bis(2-chloroethyl)ether	A	50.0	41.7	2.131862	1.778153		-16.6	
2-Chlorophenol	A	50.0	43.0	1.675159	1.442171		-13.9	
1,3-Dichlorobenzene	A	50.0	44.4	1.607404	1.42849		-11.1	
1,4-Dichlorobenzene	A	50.0	44.9	1.682635	1.5119		-10.1	20
Benzyl alcohol	A	50.0	42.5	1.594816	1.356661		-14.9	
1,2-Dichlorobenzene	A	50.0	45.3	1.644875	1.489161		-9.5	
2-Methylphenol	A	50.0	43.9	1.68611	1.481407		-12.1	
bis(2-chloroisopropyl)ether	A	50.0	41.8	4.338	3.629564		-16.3	
Acetophenone	A	50.0	45.8	2.172279	1.988177		-8.5	
3 & 4-Methylphenol	A	50.0	45.6	1.88812	1.723929		-8.7	
N-Nitroso-di-n-propylamine	A	50.0	44.2	1.692437	1.49582	0.05	-11.6	
Hexachloroethane	A	50.0	46.5	0.7516572	0.6991696		-7.0	
Nitrobenzene	A	50.0	44.6	0.4581462	0.4086		-10.8	
Isophorone	A	50.0	43.7	0.9707968	0.8483336		-12.6	
2-Nitrophenol	A	50.0	46.9	0.2153683	0.2020213		-6.2	20
2,4-Dimethylphenol	A	50.0	44.9	0.3598796	0.3233949		-10.1	
Benzoic acid	L	50.0	38.1	0.1560536	0.142132		-8.9	
bis(2-chloroethoxy)methane	A	50.0	44.4	0.5535423	0.4920061		-11.1	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9651.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2909	Injection Date: 12/29/15
Lab Sample ID: S5L2909-CCV1	Injection Time: 10:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		LIMIT (#)
		STD	CCV	ICAL	CCV	MIN (#)	CCV	
2,4-Dichlorophenol	A	50.0	46.0	0.2817506	0.2591335		-8.0	20
1,2,4-Trichlorobenzene	A	50.0	46.2	0.2831318	0.2614141		-7.7	
Naphthalene	A	50.0	44.2	1.06352	0.9402678		-11.6	
4-Chloroaniline	A	50.0	45.1	0.4823196	0.434766		-9.9	
Hexachlorobutadiene	A	50.0	45.4	0.1518128	0.1379334		-9.1	20
Caprolactam	A	50.0	46.9	0.2542203	0.2384881		-6.2	
4-Chloro-3-methylphenol	A	50.0	43.7	0.305606	0.2672935		-12.5	20
2-Methylnaphthylene	A	50.0	42.5	0.7045163	0.5991426		-15.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	45.6	0.5941404	0.5423934		-8.7	
Hexachlorocyclopentadiene	L	50.0	41.5	0.3342358	0.2774337	0.05	-17.0	
2,4,6-Trichlorophenol	A	50.0	43.2	0.4147209	0.3587543		-13.5	20
2,4,5-Trichlorophenol	A	50.0	42.3	0.4336181	0.366944		-15.4	
2-Chloronaphthalene	A	50.0	43.1	1.388646	1.196584		-13.8	
1,1-Biphenyl	A	50.0	46.1	1.752773	1.617576		-7.7	
2-Nitroaniline	A	50.0	42.3	0.512398	0.4332594		-15.4	
Dimethylphthalate	A	50.0	42.2	1.492234	1.260999		-15.5	
Acenaphthylene	A	50.0	41.3	2.115083	1.745326		-17.5	
3-Nitroaniline	A	50.0	44.7	0.5082873	0.4542032		-10.6	
Acenaphthene	A	50.0	41.0	1.314354	1.07803		-18.0	20
2,4-Dinitrophenol	L	50.0	43.3	0.1693157	0.192522	0.05	13.7	
4-Nitrophenol	A	50.0	45.6	0.1399109	0.1276855	0.05	-8.7	
Dibenzofuran	A	50.0	42.7	1.760564	1.504475		-14.5	
2,6-Dinitrotoluene	A	50.0	42.1	0.3760224	0.3166031		-15.8	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9651.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2909	Injection Date: 12/29/15
Lab Sample ID: S5L2909-CCV1	Injection Time: 10:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		LIMIT (#)
		STD	CCV	ICAL	CCV	MIN (#)	CCV	
2,4-Dinitrotoluene	A	50.0	43.8	0.4687061	0.4107443		-12.4	
2,3,4,6-Tetrachlorophenol	A	50.0	43.6	0.3804751	0.3314537		-12.9	
Diethyl phthalate	A	50.0	40.6	1.581213	1.284354		-18.8	
4-Chlorophenyl-phenylether	A	50.0	41.0	0.7110122	0.5833573		-18.0	
Fluorene	A	50.0	40.7	1.561176	1.270108		-18.6	
4-Nitroaniline	A	50.0	42.3	0.4717339	0.3991972		-15.4	
4,6-Dinitro-2-methylphenol	L	50.0	40.5	0.1634181	0.1586597		-2.9	
Carbazole	A	50.0	42.6	1.11842	0.951694		-14.9	
N-Nitrosodiphenylamine	A	50.0	43.3	0.7389522	0.6405175		-13.3	20
1,2-Diphenylhydrazine	A	50.0	43.4	1.276323	1.107012		-13.3	
Azobenzene	A	50.0	43.4	1.27668	1.107012		-13.3	
4-Bromophenyl-phenylether	A	50.0	44.6	0.2385679	0.2130555		-10.7	
Atrazine	A	50.0	42.2	0.2234126	0.1885966		-15.6	
Hexachlorobenzene	A	50.0	44.2	0.2703486	0.2387612		-11.7	
Pentachlorophenol	A	50.0	40.8	0.1764092	0.1439431		-18.4	20
Phenanthrene	A	50.0	42.8	1.170877	1.003108		-14.3	
Anthracene	A	50.0	42.5	1.176165	0.9990416		-15.1	
Di-n-butyl phthalate	A	50.0	40.1	1.594589	1.278383		-19.8	
Fluoranthene	A	50.0	40.7	1.241735	1.011153		-18.6	20
Benidine	A	50.0	47.9	0.4514539	0.4324862		-4.2	
Pyrene	A	50.0	44.5	1.126308	1.003114		-10.9	
Butylbenzylphthalate	A	50.0	41.9	0.6656976	0.5576993		-16.2	
3,3'-Dichlorobenzidine	A	50.0	47.7	0.4444578	0.4241725		-4.6	



## CONTINUING CALIBRATION VERIFICATION

EPA 8270

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS E	Calibration: 15L3101
Lab File ID: E9651.D	Calibration Date: 12/08/15 11:44
Sequence: S5L2909	Injection Date: 12/29/15
Lab Sample ID: S5L2909-CCV1	Injection Time: 10:13

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR		% DIFF		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzo[a]anthracene	A	50.0	45.5	1.152232	1.047943		-9.1	
bis(2-ethylhexyl)phthalate	A	50.0	43.4	0.933448	0.8098264		-13.2	
Chrysene	A	50.0	46.6	1.01589	0.9473436		-6.7	
Di-n-octyl phthalate	A	50.0	42.3	1.795917	1.517917		-15.5	20
Benzo[b]fluoranthene	A	50.0	44.8	1.19805	1.074393		-10.3	
Benzo[k]fluoranthene	A	50.0	44.2	1.125783	0.9941868		-11.7	
Benzo[a]pyrene	A	50.0	44.5	1.141597	1.016345		-11.0	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.7	1.249512	1.142688		-8.5	
Dibenzo(a,h)anthracene	A	50.0	47.2	1.062391	1.001885		-5.7	
Benzo[ghi]perylene	A	50.0	45.4	1.002634	0.9109002		-9.1	
2-Fluorophenol	A	50.0	48.3	1.514842	1.463715		-3.4	
Phenol-d5	A	50.0	45.9	2.234485	2.05087		-8.2	
Nitrobenzene-d5	A	50.0	48.7	0.4028346	0.3925844		-2.5	
2-Fluorobiphenyl	A	50.0	44.9	1.318454	1.182914		-10.3	
2,4,6-Tribromophenol	A	50.0	49.8	0.2447951	0.2436641		-0.5	
Terphenyl-d14	A	50.0	48.4	0.7650799	0.7398834		-3.3	

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Data File : D:\E\DATA15\DEC15\E1229\E9651.D  
 Acq On : 29 Dec 2015 10:13  
 Sample : S5L2909-CCV1  
 Misc :

Vial: 25  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 11:01 2016

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Wed Jan 06 09:13:41 2016

Response via : Initial Calibration

DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.67	152	369444	40.00	ul/l	-0.12
21) Naphthalene-d8	13.90	136	1558236	40.00	ul/l	-0.12
37) Acenaphthene-d10	18.46	164	770825	40.00	ul/l	-0.13
61) Phenanthrene-d10	22.23	188	1251272	40.00	ul/l	-0.14
75) Chrysene-d12	29.08	240	1283080	40.00	ul/l	-0.14
84) Perylene-d12	32.48	264	1155605	40.00	ul/l	-0.14

## System Monitoring Compounds

4) 2-Fluorophenol	7.69	112	675951	48.31	ul/l	-0.09
Spiked Amount	120.000	Range 15 - 110	Recovery =	40.26%		
7) Phenol-d5	10.08	99	947102	45.89	ul/l	-0.08
Spiked Amount	120.000	Range 15 - 110	Recovery =	38.24%		
22) Nitrobenzene-d5	12.16	82	764674	48.73	ul/l	-0.11
Spiked Amount	100.000	Range 30 - 130	Recovery =	48.73%		
42) 2-Fluorobiphenyl	16.77	172	1139775	44.86	ul/l	-0.13
Spiked Amount	100.000	Range 15 - 110	Recovery =	44.86%		
60) 2,4,6-Tribromophenol	20.52	330	234778	49.77	ul/l	-0.13
Spiked Amount	120.000	Range 15 - 110	Recovery =	41.48%		
78) Terphenyl-d14	26.39	244	1186662	48.35	ul/l	-0.14
Spiked Amount	100.000	Range 30 - 130	Recovery =	48.35%		

## Target Compounds

						Qvalue
2) Pyridine	4.31	79	626236	40.89	ul/l	95
3) N-Nitrosodimethylamine	4.39	74	516921m	40.34	ul/l	
5) Benzaldehyde	9.60	77	99826	51.61	ul/l	92
6) Aniline	10.00	93	1120303	40.69	ul/l	93
8) Phenol	10.11	94	933425	41.54	ul/l	97
9) bis(2-Chloroethyl)ether	10.19	93	821160	41.70	ul/l	93
10) 2-Chlorophenol	10.24	128	666002	43.05	ul/l	93
11) 1,3-Dichlorobenzene	10.57	146	659684	44.43	ul/l	99
12) 1,4-Dichlorobenzene	10.71	146	698203	44.93	ul/l	100
13) Benzyl alcohol	11.16	79	626513	42.53	ul/l	92
14) 1,2-Dichlorobenzene	11.16	146	687702	45.27	ul/l	98
15) 2-Methylphenol	11.55	108	684121	43.93	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.54	45	1676151	41.83	ul/l #	73
17) Acetophenone	11.80	105	918150	45.76	ul/l	93
18) 3&4-Methylphenol	11.93	108	796119	45.65	ul/l	98
19) N-Nitroso-di-n-propylamine	11.93	70	690777	44.19	ul/l	93
20) Hexachloroethane	11.92	117	322880	46.51	ul/l	94
23) Nitrobenzene	12.21	77	795869	44.59	ul/l	94
24) Isophorone	12.84	82	1652380	43.69	ul/l	99
25) 2-Nitrophenol	13.01	139	393496	46.90	ul/l	97
26) 2,4-Dimethylphenol	13.24	107	629907	44.93	ul/l	98
27) Benzoic Acid	13.76	122	276844m	38.12	ul/l	
28) bis(2-Chloroethoxy)methane	13.45	93	958327	44.44	ul/l	99
29) 2,4-Dichlorophenol	13.64	162	504739	45.99	ul/l	98
30) 1,2,4-Trichlorobenzene	13.81	180	509181	46.16	ul/l	98
31) Naphthalene	13.95	128	1831449	44.21	ul/l	98
32) 4-Chloroaniline	14.20	127	846835	45.07	ul/l	99
33) Hexachlorobutadiene	14.46	225	268666	45.43	ul/l #	60
34) Caprolactam	15.25	55	464526m	46.91	ul/l	
35) 4-Chloro-3-methylphenol	15.55	107	520633	43.73	ul/l	99
36) 2-Methylnaphthalene	15.73	142	1167007	42.52	ul/l	93
38) 1,2,4,5-tetrachlorobenzene	16.27	216	522613	45.65	ul/l	98
39) Hexachlorocyclopentadiene	16.33	237	267316	41.50	ul/l	97
40) 2,4,6-Trichlorophenol	16.57	196	345671	43.25	ul/l	97
41) 2,4,5-Trichlorophenol	16.69	196	353562	42.31	ul/l	99
43) 1,1'-Biphenyl	16.98	154	1558585	46.14	ul/l	96
44) 2-Chloronaphthalene	16.98	162	1152946	43.08	ul/l	98
45) 2-Nitroaniline	17.37	65	417459	42.28	ul/l	92
46) Dimethylphthalate	17.98	163	1215012	42.25	ul/l	99
47) Acenaphthylene	18.06	152	1681676	41.26	ul/l	98
48) 3-Nitroaniline	18.47	138	437639	44.68	ul/l	100

(#)=qualifier out of range (m)=manual integration

E9651.D SVE81208.M Wed Jan 13 12:57:46 2016



Data File : D:\E\DATA15\DEC15\E1229\E9651.D  
 Acq On : 29 Dec 2015 10:13  
 Sample : S5L2909-CCV1  
 Misc :

Vial: 25  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 11:01 2016

Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Wed Jan 06 09:13:41 2016

Response via : Initial Calibration

DataAcq Meth : SVE81208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.55	153	1038716	41.01	ul/l	98
50) 2,4-Dinitrophenol	18.71	184	185501	43.32	ul/l	93
51) 4-Nitrophenol	18.99	109	123029	45.63	ul/l #	1
52) Dibenzofuran	18.96	168	1449609	42.73	ul/l #	59
53) 2,6-Dinitrotoluene	18.13	165	305057	42.10	ul/l	98
54) 2,4-Dinitrotoluene	19.13	165	395765	43.82	ul/l	98
55) 2,3,4,6-tetrachlorophenol	19.41	232	319366	43.56	ul/l	96
56) Diethylphthalate	19.81	149	1237515	40.61	ul/l	99
57) 4-Chlorophenyl-phenylether	19.87	204	562083	41.02	ul/l	93
58) Fluorene	19.84	166	1223789	40.68	ul/l	98
59) 4-Nitroaniline	20.10	138	384639	42.31	ul/l	97
62) 4,6-Dinitro-2-methylphenol	20.19	198	248158	40.49	ul/l	97
63) Carbazole	22.86	167	1488535	42.55	ul/l	100
64) n-Nitrosodiphenylamine	20.23	169	1001827	43.34	ul/l	98
65) 1,2-Diphenylhydrazine	20.28	77	1731466	43.37	ul/l	85
66) Azobenzene	20.28	77	1731466	43.36	ul/l	85
67) 4-Bromophenyl-phenylether	21.11	248	333238	44.65	ul/l	96
68) Hexachlorobenzene	21.47	284	373444	44.16	ul/l #	70
69) Atrazine	21.74	58	294982	42.21	ul/l	95
70) Pentachlorophenol	21.95	266	225140	40.80	ul/l	98
71) Phenanthrene	22.30	178	1568951	42.84	ul/l	99
72) Anthracene	22.41	178	1562591	42.47	ul/l	99
73) Di-n-butylphthalate	23.96	149	1999506	40.09	ul/l	100
74) Fluoranthene	25.36	202	1581534	40.72	ul/l	97
76) Benzidine	25.73	184	693643	47.90	ul/l	99
77) Pyrene	25.92	202	1608844	44.53	ul/l	96
79) Butylbenzylphthalate	27.76	149	894466	41.89	ul/l	94
80) 3,3'-Dichlorobenzidine	29.03	252	680309	47.72	ul/l	99
81) Benzo[a]anthracene	29.01	228	1680744	45.47	ul/l	98
82) bis(2-Ethylhexyl)phthalate	29.30	149	1298840	43.38	ul/l	98
83) Chrysene	29.15	228	1519397	46.63	ul/l	98
85) Di-n-octylphthalate	30.78	149	2192640	42.26	ul/l	98
86) Benzo[b]fluoranthene	31.63	252	1551968	44.84	ul/l	94
87) Benzo[k]fluoranthene	31.70	252	1436109m	44.16	ul/l	
88) Benzo[a]pyrene	32.35	252	1468116	44.51	ul/l	93
89) Indeno[1,2,3-cd]pyrene	34.79	276	1650620	45.73	ul/l	76
90) Dibenz[a,h]anthracene	34.80	278	1447229	47.15	ul/l	92
91) Benzo[g,h,i]perylene	35.39	276	1315801	45.43	ul/l	88

(#) = qualifier out of range (m) = manual integration

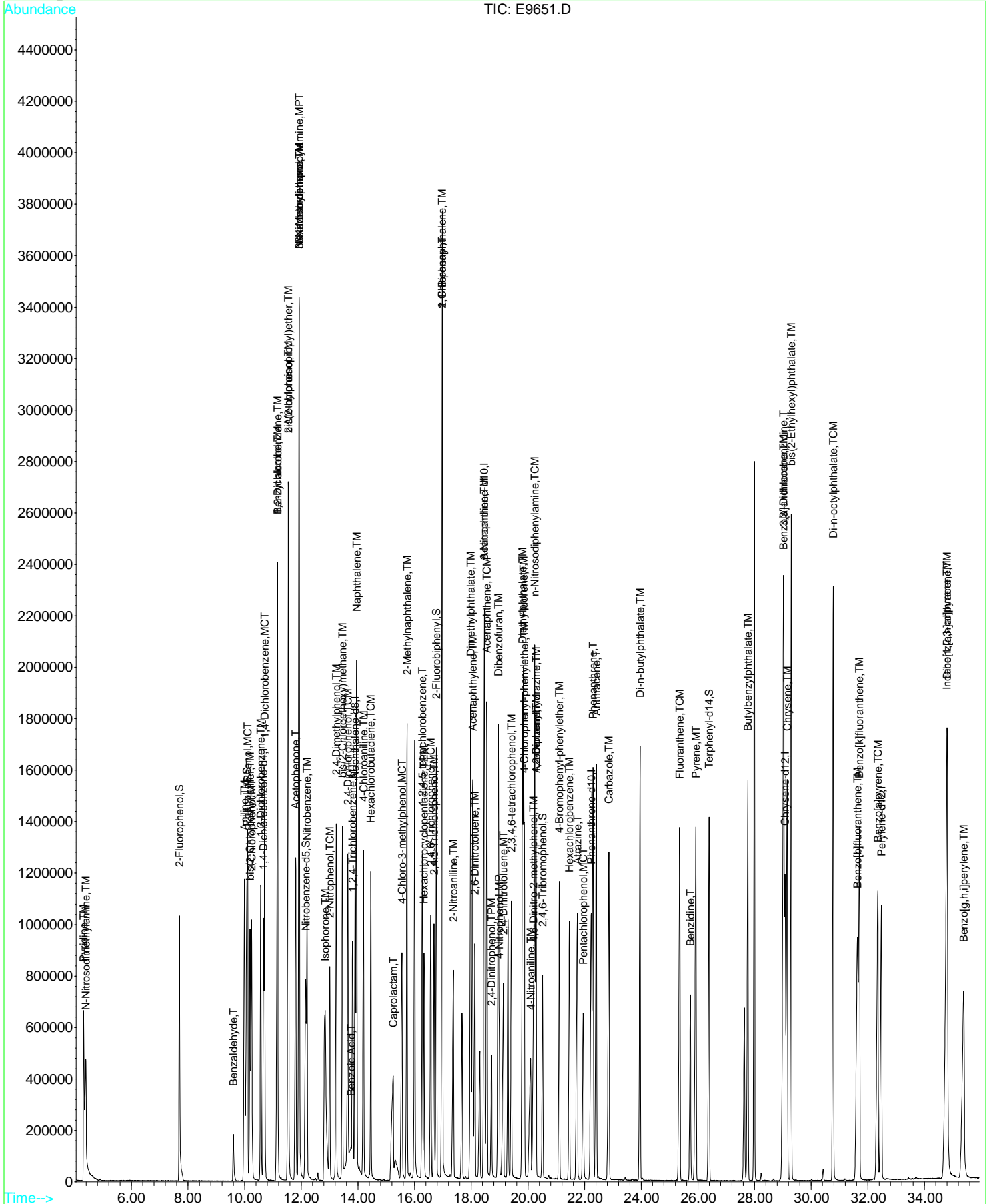
E9651.D SVE81208.M Wed Jan 13 12:57:47 2016

Data File : D:\E\DATA15\DEC15\E1229\E9651.D  
Acq On : 29 Dec 2015 10:13  
Sample : S5L2909-CCV1  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 11:01 2016

Vial: 25  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



# SEMIVOLATILES

## RAW DATA

Data File : D:\E\DATA15\DEC15\E1208\E9454.D

Vial: 2

Acq On : 8 Dec 2015 12:37

Operator: JMM

Sample : S5L0816-CAL1

Inst : GC/MS E

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 5 17:11 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.77	152	314189	40.00	ul/l	-0.01
21) Naphthalene-d8	14.01	136	1372679	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.57	164	634389	40.00	ul/l	-0.02
61) Phenanthrene-d10	22.35	188	1104975	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1160509	40.00	ul/l	-0.02
84) Perylene-d12	32.60	264	1125752	40.00	ul/l	-0.02

## System Monitoring Compounds

4) 2-Fluorophenol	7.77	112	54941	4.73	ul/l	-0.01
Spiked Amount	120.000	Range 15 - 110	Recovery	=	3.94%#	
7) Phenol-d5	10.11	99	83255	5.08	ul/l	-0.04
Spiked Amount	120.000	Range 15 - 110	Recovery	=	4.23%#	
22) Nitrobenzene-d5	12.24	82	64991	5.08	ul/l	-0.03
Spiked Amount	100.000	Range 30 - 130	Recovery	=	5.08%#	
42) 2-Fluorobiphenyl	16.87	172	102132	4.78	ul/l	-0.04
Spiked Amount	100.000	Range 15 - 110	Recovery	=	4.78%#	
60) 2,4,6-Tribromophenol	20.61	330	17099	3.17	ul/l	-0.04
Spiked Amount	120.000	Range 15 - 110	Recovery	=	2.64%#	
78) Terphenyl-d14	26.51	244	112337	4.98	ul/l	-0.03
Spiked Amount	100.000	Range 30 - 130	Recovery	=	4.98%#	

## Target Compounds

						Qvalue
2) Pyridine	4.44	79	60448	4.62	ul/l	98
3) N-Nitrosodimethylamine	4.47	74	54286	5.71	ul/l	95
5) Benzaldehyde	9.72	77	8976	4.30	ul/l	90
6) Aniline	10.08	93	117907	5.61	ul/l	96
8) Phenol	10.13	94	91660	5.29	ul/l	95
9) bis(2-Chloroethyl)ether	10.28	93	83194	5.49	ul/l	93
10) 2-Chlorophenol	10.33	128	61615	5.10	ul/l	92
11) 1,3-Dichlorobenzene	10.68	146	60711	5.07	ul/l	100
12) 1,4-Dichlorobenzene	10.81	146	63588	5.12	ul/l	99
13) Benzyl alcohol	11.22	79	57621	5.21	ul/l	86
14) 1,2-Dichlorobenzene	11.27	146	60953	4.98	ul/l	98
15) 2-Methylphenol	11.60	108	59602	4.93	ul/l	95
16) bis(2-chloroisopropyl)ethe	11.65	45	170468	7.86	ul/l	89
17) Acetophenone	11.87	105	83771	4.53	ul/l	92
18) 3&4-Methylphenol	11.97	108	65240	4.88	ul/l	98
19) N-Nitroso-di-n-propylamine	11.98	70	63487	5.82	ul/l	87
20) Hexachloroethane	12.04	117	25182	4.86	ul/l	96
23) Nitrobenzene	12.28	77	78031	5.50	ul/l	90
24) Isophorone	12.88	82	164206	5.38	ul/l	98
25) 2-Nitrophenol	13.10	139	32547	4.61	ul/l	91
26) 2,4-Dimethylphenol	13.29	107	57974	4.76	ul/l	98
27) Benzoic Acid	13.61	122	14022m	2.11	ul/l	
28) bis(2-Chloroethoxy)methane	13.54	93	94175	5.29	ul/l	97
29) 2,4-Dichlorophenol	13.70	162	44438	4.39	ul/l	95
30) 1,2,4-Trichlorobenzene	13.92	180	46023	4.44	ul/l	99
31) Naphthalene	14.05	128	179892	5.11	ul/l	99
32) 4-Chloroaniline	14.29	127	72136	4.57	ul/l	99
33) Hexachlorobutadiene	14.57	225	23897	4.01	ul/l	# 56
34) Caprolactam	15.06	55	46008	5.22	ul/l	# 76
35) 4-Chloro-3-methylphenol	15.59	107	49021	4.54	ul/l	99
36) 2-Methylnaphthalene	15.83	142	117068	4.89	ul/l	97
38) 1,2,4,5-tetrachlorobenzene	16.38	216	43882	3.74	ul/l	98
39) Hexachlorocyclopentadiene	16.46	237	21238	8.11	ul/l	91
40) 2,4,6-Trichlorophenol	16.66	196	30178	4.44	ul/l	97
41) 2,4,5-Trichlorophenol	16.75	196	31278	4.31	ul/l	97
43) 1,1'-Biphenyl	17.08	154	127681	4.25	ul/l	94
44) 2-Chloronaphthalene	17.07	162	100440	4.81	ul/l	97
45) 2-Nitroaniline	17.45	65	38331	5.55	ul/l	88
46) Dimethylphthalate	18.05	163	115590	4.78	ul/l	99
47) Acenaphthylene	18.15	152	161843	4.92	ul/l	98
48) 3-Nitroaniline	18.52	138	37152	5.22	ul/l	96

(#)= qualifier out of range (m) = manual integration

E9454.D SVE81208.M Wed Jan 13 12:56:07 2016

Data File : D:\E\DATA15\DEC15\E1208\E9454.D  
 Acq On : 8 Dec 2015 12:37  
 Sample : S5L0816-CAL1  
 Misc :

Vial: 2  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 5 17:11 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

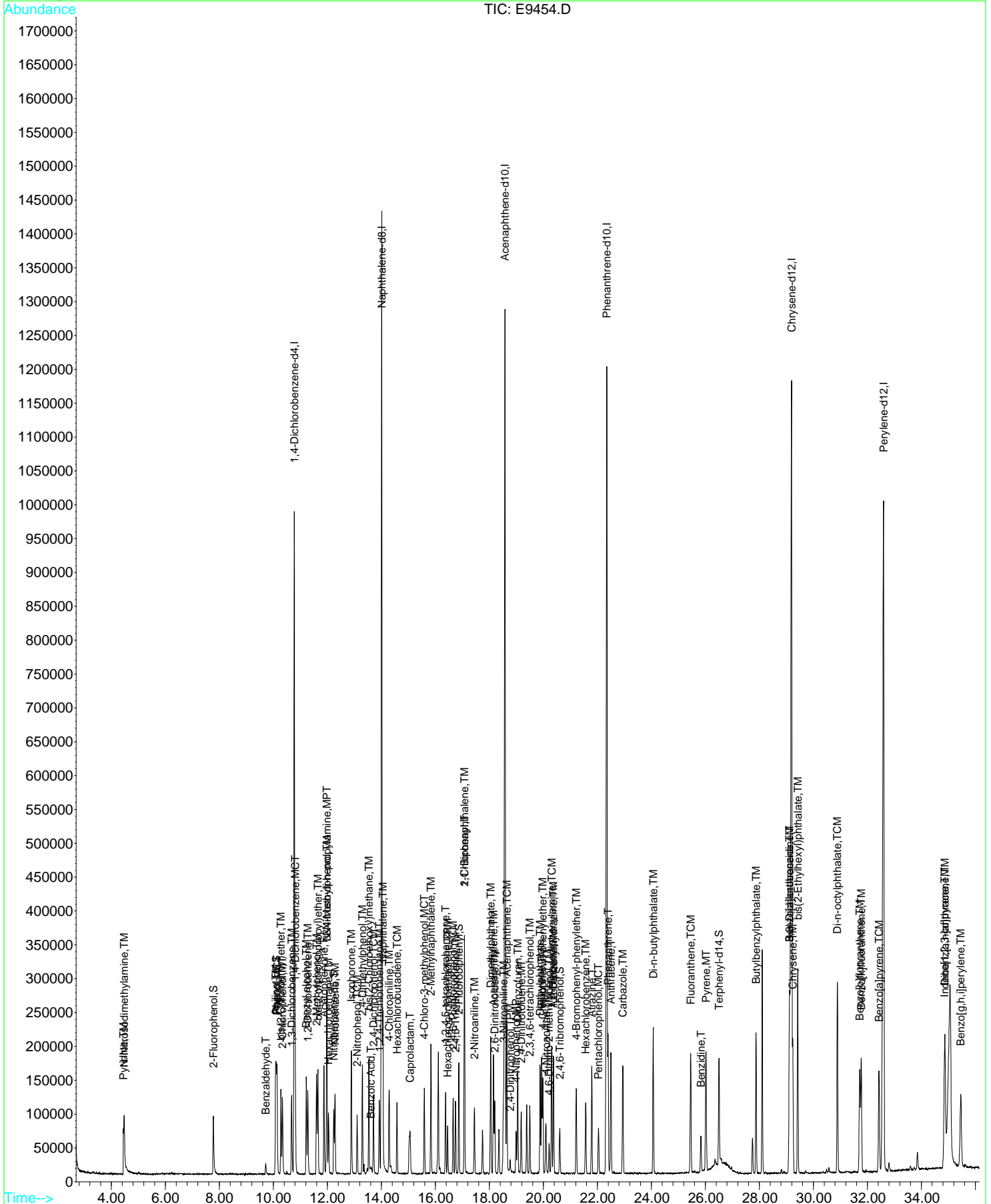
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.65	153	100366	5.12	ul/l	100
50) 2,4-Dinitrophenol	18.77	184	4143	7.82	ul/l #	58
51) 4-Nitrophenol	18.99	109	8789	3.80	ul/l	88
52) Dibenzofuran	19.05	168	134570	4.76	ul/l	98
53) 2,6-Dinitrotoluene	18.20	165	27658	4.86	ul/l	92
54) 2,4-Dinitrotoluene	19.18	165	33556	4.57	ul/l	89
55) 2,3,4,6-tetrachlorophenol	19.50	232	27633	4.25	ul/l	97
56) Diethylphthalate	19.88	149	117880	4.80	ul/l	98
57) 4-Chlorophenyl-phenylether	19.98	204	49795	4.34	ul/l	96
58) Fluorene	19.94	166	110667	4.49	ul/l	98
59) 4-Nitroaniline	20.09	138	33869	5.34	ul/l	97
62) 4,6-Dinitro-2-methylphenol	20.21	198	13025	3.67	ul/l	94
63) Carbazole	22.94	167	151087	5.31	ul/l	100
64) n-Nitrosodiphenylamine	20.30	169	92956	4.85	ul/l	98
65) 1,2-Diphenylhydrazine	20.37	77	161609	6.01	ul/l	98
66) Azobenzene	20.37	77	161609	6.01	ul/l	98
67) 4-Bromophenyl-phenylether	21.22	248	30118	4.37	ul/l	97
68) Hexachlorobenzene	21.57	284	35540	4.14	ul/l #	71
69) Atrazine	21.79	58	30866	7.09	ul/l	91
70) Pentachlorophenol	22.04	266	19834	3.89	ul/l	97
71) Phenanthrene	22.40	178	156113	5.14	ul/l	96
72) Anthracene	22.50	178	154558	5.01	ul/l	96
73) Di-n-butylphthalate	24.07	149	222666	5.44	ul/l	98
74) Fluoranthene	25.46	202	167190	4.89	ul/l	97
76) Benzidine	25.83	184	47620	4.04	ul/l	98
77) Pyrene	26.02	202	172923	5.73	ul/l	95
79) Butylbenzylphthalate	27.88	149	102664	6.37	ul/l	94
80) 3,3'-Dichlorobenzidine	29.11	252	60750	4.71	ul/l	99
81) Benzo[a]anthracene	29.11	228	167140	5.28	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.42	149	139426	6.20	ul/l	94
83) Chrysene	29.24	228	149648	5.72	ul/l	96
85) Di-n-octylphthalate	30.89	149	253165m	6.09	ul/l	
86) Benzo[b]fluoranthene	31.72	252	157699m	4.87	ul/l	
87) Benzo[k]fluoranthene	31.77	252	144908	4.82	ul/l	93
88) Benzo[a]pyrene	32.43	252	152618	5.03	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.86	276	160340	4.80	ul/l	77
90) Dibenz[a,h]anthracene	34.87	278	132376	4.55	ul/l	91
91) Benzo[g,h,i]perylene	35.46	276	138508	5.37	ul/l	88

Data File : D:\E\DATA15\DEC15\E1208\E9454.D  
Acq On : 8 Dec 2015 12:37  
Sample : S5L0816-CAL1  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 5 17:11 2016

Vial: 2  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



Data File : D:\E\DATA15\DEC15\E1208\E9455.D

Vial: 3

Acq On : 8 Dec 2015 15:04

Operator: JMM

Sample : S5L0816-CAL2

Inst : GC/MS E

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.78	152	296854	40.00	ul/l	0.00
21) Naphthalene-d8	14.01	136	1331094	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.57	164	638962	40.00	ul/l	-0.02
61) Phenanthrene-d10	22.35	188	1135647	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1223927	40.00	ul/l	-0.02
84) Perylene-d12	32.59	264	1169143	40.00	ul/l	-0.02

## System Monitoring Compounds

4) 2-Fluorophenol	7.78	112	107582	9.80	ul/l	0.00
Spiked Amount 120.000	Range 15 - 110		Recovery =			8.17%#
7) Phenol-d5	10.12	99	161046	10.40	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery =			8.67%#
22) Nitrobenzene-d5	12.24	82	133075	10.72	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =			10.72%#
42) 2-Fluorobiphenyl	16.87	172	204743	9.51	ul/l	-0.03
Spiked Amount 100.000	Range 15 - 110		Recovery =			9.51%#
60) 2,4,6-Tribromophenol	20.61	330	36122	6.65	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery =			5.54%#
78) Terphenyl-d14	26.51	244	240769	10.11	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =			10.11%#

## Target Compounds

						Qvalue
2) Pyridine	4.43	79	126394	10.22	ul/l	93
3) N-Nitrosodimethylamine	4.47	74	101909	11.35	ul/l	90
5) Benzaldehyde	9.72	77	15115	7.67	ul/l	94
6) Aniline	10.09	93	231716	11.68	ul/l	93
8) Phenol	10.15	94	178202	10.88	ul/l	97
9) bis(2-Chloroethyl)ether	10.28	93	157627	11.00	ul/l	94
10) 2-Chlorophenol	10.34	128	118864	10.41	ul/l	93
11) 1,3-Dichlorobenzene	10.68	146	118351	10.46	ul/l	99
12) 1,4-Dichlorobenzene	10.82	146	123701	10.54	ul/l	100
13) Benzyl alcohol	11.23	79	116398	11.15	ul/l	87
14) 1,2-Dichlorobenzene	11.27	146	117051	10.13	ul/l	99
15) 2-Methylphenol	11.61	108	119034	10.42	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.65	45	323981	15.81	ul/l	89
17) Acetophenone	11.88	105	162208	9.28	ul/l	92
18) 3&4-Methylphenol	11.98	108	130578	10.33	ul/l	97
19) N-Nitroso-di-n-propylamine	11.99	70	122460	11.89	ul/l	87
20) Hexachloroethane	12.04	117	51067	10.42	ul/l	98
23) Nitrobenzene	12.29	77	151593	11.02	ul/l	89
24) Isophorone	12.89	82	334597	11.31	ul/l	96
25) 2-Nitrophenol	13.10	139	69136	10.11	ul/l	95
26) 2,4-Dimethylphenol	13.30	107	117499	9.96	ul/l	96
27) Benzoic Acid	13.56	122	45818m	7.11	ul/l	
28) bis(2-Chloroethoxy)methane	13.54	93	184408	10.67	ul/l	98
29) 2,4-Dichlorophenol	13.71	162	87260	8.89	ul/l	99
30) 1,2,4-Trichlorobenzene	13.92	180	91039	9.06	ul/l	99
31) Naphthalene	14.06	128	358605	10.51	ul/l	99
32) 4-Chloroaniline	14.29	127	160800	10.50	ul/l	98
33) Hexachlorobutadiene	14.58	225	48533	8.41	ul/l	# 58
34) Caprolactam	15.12	55	92139	10.79	ul/l	94
35) 4-Chloro-3-methylphenol	15.60	107	100751	9.63	ul/l	100
36) 2-Methylnaphthalene	15.83	142	232075	10.00	ul/l	93
38) 1,2,4,5-tetrachlorobenzene	16.38	216	91134	7.72	ul/l	96
39) Hexachlorocyclopentadiene	16.46	237	46083	11.74	ul/l	96
40) 2,4,6-Trichlorophenol	16.66	196	61157	8.93	ul/l	98
41) 2,4,5-Trichlorophenol	16.75	196	65674	8.99	ul/l	99
43) 1,1'-Biphenyl	17.08	154	260803	8.62	ul/l	94
44) 2-Chloronaphthalene	17.08	162	200690	9.53	ul/l	98
45) 2-Nitroaniline	17.45	65	79339	11.41	ul/l	88
46) Dimethylphthalate	18.06	163	233127	9.57	ul/l	99
47) Acenaphthylene	18.16	152	330512	9.97	ul/l	97
48) 3-Nitroaniline	18.53	138	77513	10.82	ul/l	95

(#)=qualifier out of range (m)=manual integration

E9455.D SVE81208.M Wed Jan 13 12:56:14 2016

Data File : D:\E\DATA15\DEC15\E1208\E9455.D  
 Acq On : 8 Dec 2015 15:04  
 Sample : S5L0816-CAL2  
 Misc :

Vial: 3  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.65	153	203544	10.30	ul/l	99
50) 2,4-Dinitrophenol	18.77	184	16357	10.68	ul/l	89
51) 4-Nitrophenol	19.00	109	19673	8.45	ul/l	77
52) Dibenzofuran	19.05	168	276794	9.73	ul/l	99
53) 2,6-Dinitrotoluene	18.21	165	58121	10.14	ul/l	95
54) 2,4-Dinitrotoluene	19.19	165	72931	9.86	ul/l	94
55) 2,3,4,6-tetrachlorophenol	19.50	232	57094	8.71	ul/l	98
56) Diethylphthalate	19.89	149	241415	9.76	ul/l	98
57) 4-Chlorophenyl-phenylether	19.99	204	103419	8.95	ul/l	96
58) Fluorene	19.94	166	224250	9.04	ul/l	100
59) 4-Nitroaniline	20.11	138	76661	11.99	ul/l	100
62) 4,6-Dinitro-2-methylphenol	20.23	198	34644	9.47	ul/l	98
63) Carbazole	22.95	167	309484	10.58	ul/l	100
64) n-Nitrosodiphenylamine	20.31	169	187927	9.55	ul/l	100
65) 1,2-Diphenylhydrazine	20.38	77	332097	12.02	ul/l	97
66) Azobenzene	20.38	77	332097	12.02	ul/l	97
67) 4-Bromophenyl-phenylether	21.22	248	64659	9.14	ul/l	98
68) Hexachlorobenzene	21.57	284	72419	8.21	ul/l #	72
69) Atrazine	21.80	58	62852	14.05	ul/l	93
70) Pentachlorophenol	22.04	266	47229	9.02	ul/l	94
71) Phenanthrene	22.40	178	323543	10.36	ul/l	97
72) Anthracene	22.51	178	322147	10.15	ul/l	97
73) Di-n-butylphthalate	24.07	149	447028	10.63	ul/l	99
74) Fluoranthene	25.46	202	348957	9.94	ul/l	98
76) Benzidine	25.84	184	139274	11.63	ul/l	98
77) Pyrene	26.02	202	362940	11.41	ul/l	95
79) Butylbenzylphthalate	27.88	149	215470	12.67	ul/l	96
80) 3,3'-Dichlorobenzidine	29.12	252	126433	9.29	ul/l	99
81) Benzo[a]anthracene	29.12	228	353544	10.60	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.42	149	291590	12.29	ul/l	95
83) Chrysene	29.24	228	313572	11.36	ul/l	97
85) Di-n-octylphthalate	30.89	149	531560m	12.30	ul/l	
86) Benzo[b]fluoranthene	31.72	252	333773m	9.93	ul/l	
87) Benzo[k]fluoranthene	31.78	252	333857m	10.69	ul/l	
88) Benzo[a]pyrene	32.44	252	324088	10.29	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.87	276	337538	9.73	ul/l	76
90) Dibenz[a,h]anthracene	34.89	278	282221	9.35	ul/l	90
91) Benzo[g,h,i]perylene	35.48	276	281315	10.49	ul/l	89

(#) = qualifier out of range (m) = manual integration

E9455.D SVE81208.M Wed Jan 13 12:56:15 2016

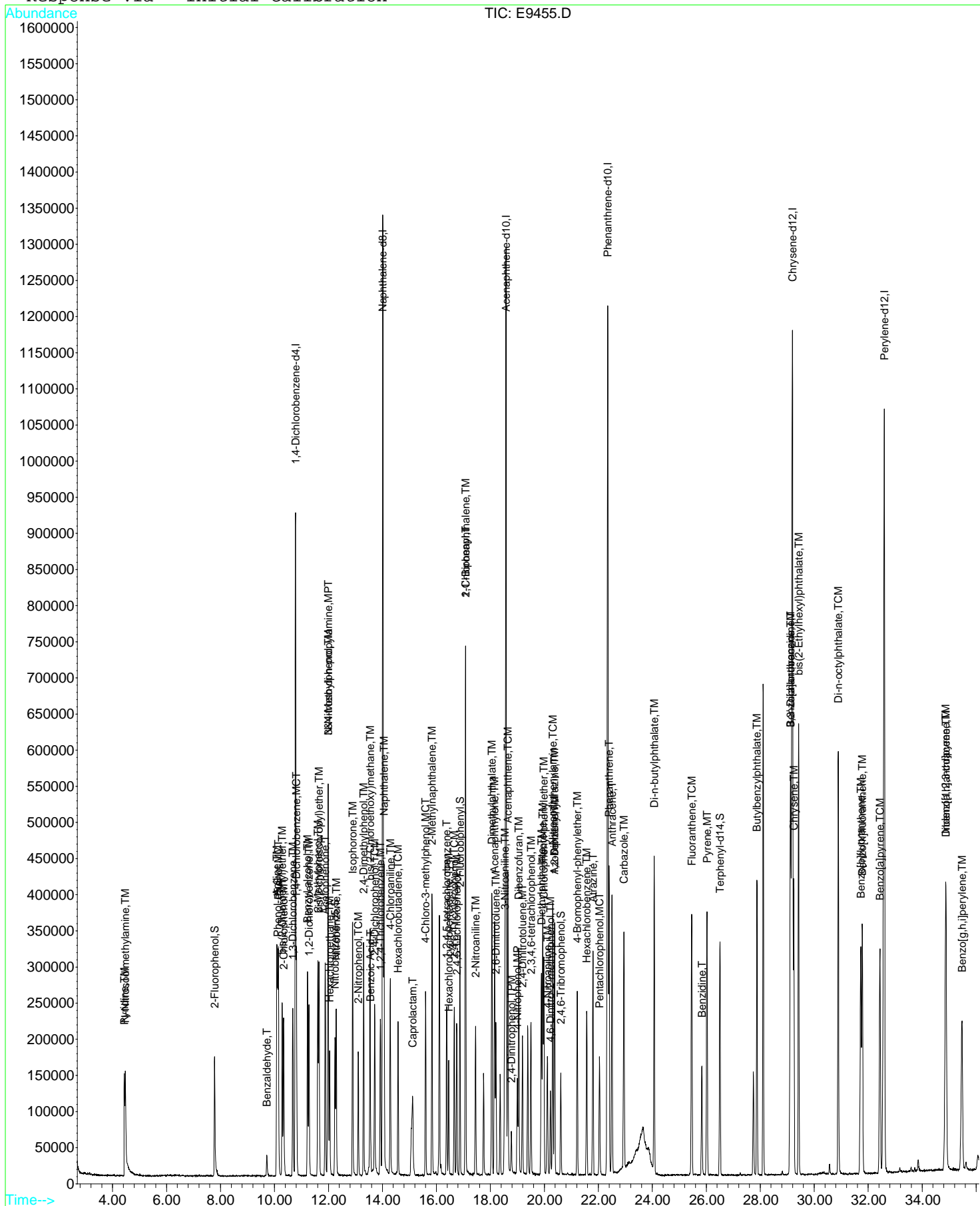


Data File : D:\E\DATA15\DEC15\E1208\E9455.D  
Acq On : 8 Dec 2015 15:04  
Sample : S5L0816-CAL2  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 9:12 2016

Vial: 3  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



Data File : D:\E\DATA15\DEC15\E1208\E9456.D

Vial: 4

Acq On : 8 Dec 2015 15:48

Operator: JMM

Sample : S5L0816-CAL3

Inst : GC/MS E

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.77	152	290369	40.00	ul/l	-0.01
21) Naphthalene-d8	14.01	136	1273176	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.58	164	607041	40.00	ul/l	-0.01
61) Phenanthrene-d10	22.35	188	1085725	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1193449	40.00	ul/l	-0.02
84) Perylene-d12	32.60	264	1132813	40.00	ul/l	-0.02

## System Monitoring Compounds

4) 2-Fluorophenol	7.78	112	213336	19.86	ul/l	-0.01
Spiked Amount 120.000	Range 15 - 110		Recovery =	16.55%		
7) Phenol-d5	10.12	99	311443	20.56	ul/l	-0.03
Spiked Amount 120.000	Range 15 - 110		Recovery =	17.13%		
22) Nitrobenzene-d5	12.25	82	253075	21.32	ul/l	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	21.32%#		
42) 2-Fluorobiphenyl	16.88	172	389127	19.01	ul/l	-0.02
Spiked Amount 100.000	Range 15 - 110		Recovery =	19.01%		
60) 2,4,6-Tribromophenol	20.62	330	73947	14.33	ul/l	-0.03
Spiked Amount 120.000	Range 15 - 110		Recovery =	11.94%#		
78) Terphenyl-d14	26.51	244	470696	20.27	ul/l	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	20.27%#		

## Target Compounds

						Qvalue
2) Pyridine	4.42	79	240793	19.91	ul/l	93
3) N-Nitrosodimethylamine	4.48	74	198230	22.58	ul/l	91
5) Benzaldehyde	9.71	77	29914	15.51	ul/l	96
6) Aniline	10.09	93	430102	22.16	ul/l	95
8) Phenol	10.15	94	338068	21.11	ul/l	95
9) bis(2-Chloroethyl)ether	10.29	93	298339	21.29	ul/l	93
10) 2-Chlorophenol	10.34	128	234311	20.98	ul/l	93
11) 1,3-Dichlorobenzene	10.68	146	233055	21.06	ul/l	100
12) 1,4-Dichlorobenzene	10.82	146	236913	20.65	ul/l	98
13) Benzyl alcohol	11.23	79	225675	22.09	ul/l	86
14) 1,2-Dichlorobenzene	11.27	146	229583	20.31	ul/l	98
15) 2-Methylphenol	11.61	108	233514	20.90	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.65	45	624565	31.16	ul/l	93
17) Acetophenone	11.89	105	313462	18.34	ul/l	92
18) 3&4-Methylphenol	11.99	108	253368	20.49	ul/l	95
19) N-Nitroso-di-n-propylamine	12.00	70	234555	23.27	ul/l	87
20) Hexachloroethane	12.04	117	102663	21.42	ul/l	99
23) Nitrobenzene	12.29	77	289459	22.00	ul/l	92
24) Isophorone	12.90	82	630384	22.27	ul/l	98
25) 2-Nitrophenol	13.11	139	134735	20.60	ul/l	96
26) 2,4-Dimethylphenol	13.31	107	229969	20.38	ul/l	96
27) Benzoic Acid	13.66	122	76617m	12.44	ul/l	
28) bis(2-Chloroethoxy)methane	13.55	93	355555	21.51	ul/l	98
29) 2,4-Dichlorophenol	13.72	162	174127	18.55	ul/l	99
30) 1,2,4-Trichlorobenzene	13.93	180	176543	18.37	ul/l	98
31) Naphthalene	14.06	128	682446	20.91	ul/l	100
32) 4-Chloroaniline	14.30	127	310741	21.22	ul/l	98
33) Hexachlorobutadiene	14.58	225	94329	17.08	ul/l	# 57
34) Caprolactam	15.19	55	175834	21.52	ul/l	92
35) 4-Chloro-3-methylphenol	15.61	107	198121	19.79	ul/l	98
36) 2-Methylnaphthalene	15.84	142	451212	20.33	ul/l	94
38) 1,2,4,5-tetrachlorobenzene	16.38	216	174842	15.59	ul/l	97
39) Hexachlorocyclopentadiene	16.46	237	97648	20.08	ul/l	96
40) 2,4,6-Trichlorophenol	16.67	196	122330	18.80	ul/l	96
41) 2,4,5-Trichlorophenol	16.76	196	127066	18.32	ul/l	97
43) 1,1'-Biphenyl	17.09	154	515356	17.93	ul/l	94
44) 2-Chloronaphthalene	17.08	162	402907	20.15	ul/l	97
45) 2-Nitroaniline	17.46	65	153716	23.26	ul/l	91
46) Dimethylphthalate	18.07	163	444094	19.20	ul/l	99
47) Acenaphthylene	18.16	152	629337	19.98	ul/l	98
48) 3-Nitroaniline	18.54	138	153428	22.54	ul/l	# 95

(#)=qualifier out of range (m)=manual integration

E9456.D SVE81208.M Wed Jan 13 12:56:22 2016

Data File : D:\E\DATA15\DEC15\E1208\E9456.D  
 Acq On : 8 Dec 2015 15:48  
 Sample : S5L0816-CAL3  
 Misc :

Vial: 4  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)  
 Title : SEMI-VOA 8270 TCL HP5971E  
 Last Update : Mon Dec 07 13:09:48 2015  
 Response via : Initial Calibration  
 DataAcq Meth : SVE81207

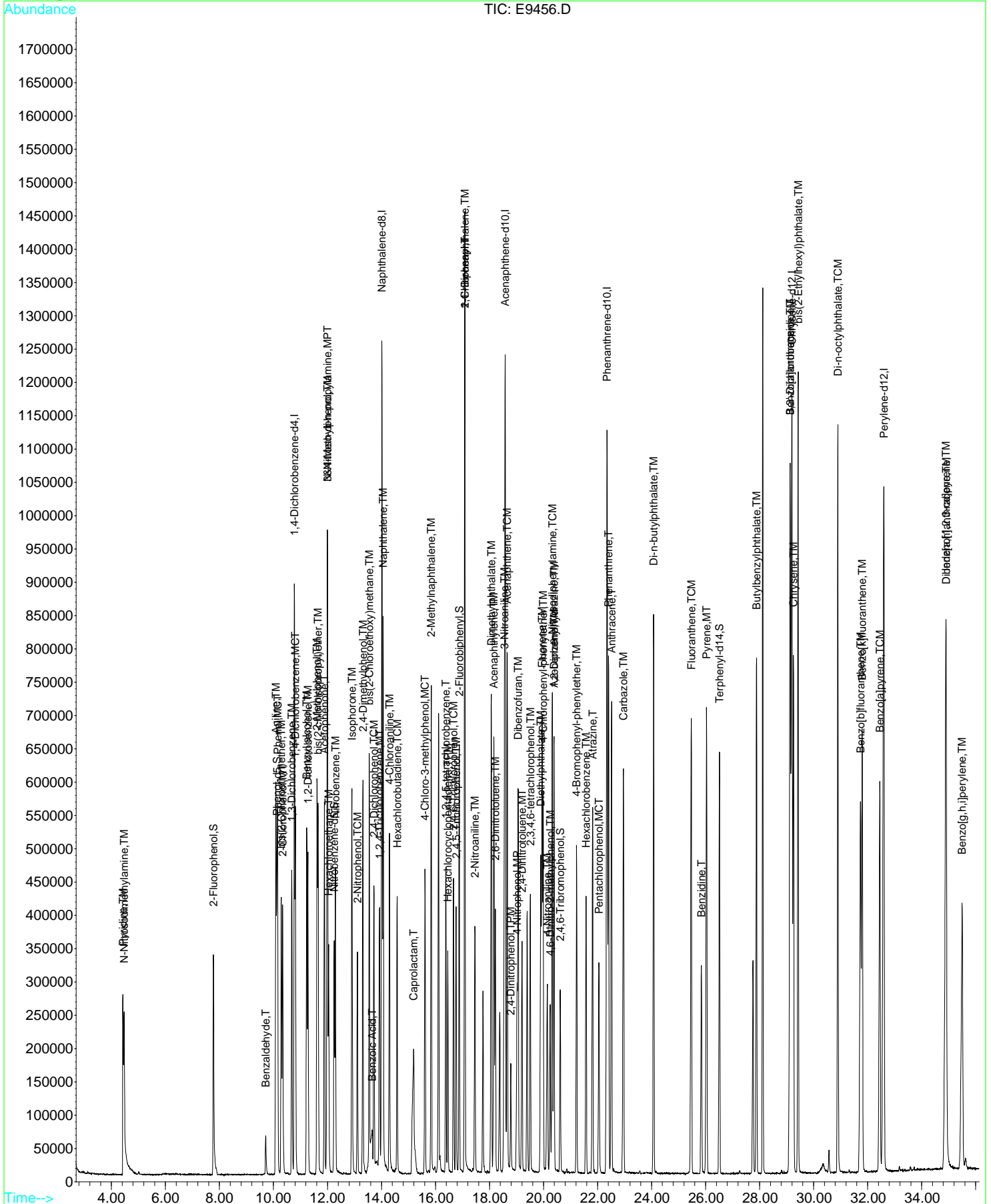
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.65	153	393989	20.99	ul/l	99
50) 2,4-Dinitrophenol	18.79	184	48245	18.75	ul/l	95
51) 4-Nitrophenol	19.02	109	41357	18.71	ul/l	78
52) Dibenzofuran	19.06	168	533882	19.75	ul/l	99
53) 2,6-Dinitrotoluene	18.22	165	113195	20.80	ul/l	94
54) 2,4-Dinitrotoluene	19.21	165	145154	20.66	ul/l	92
55) 2,3,4,6-tetrachlorophenol	19.51	232	113137	18.17	ul/l	98
56) Diethylphthalate	19.89	149	466335	19.84	ul/l	98
57) 4-Chlorophenyl-phenylether	19.99	204	202219	18.41	ul/l	96
58) Fluorene	19.95	166	441553	18.74	ul/l	98
59) 4-Nitroaniline	20.14	138	145752	24.00	ul/l	99
62) 4,6-Dinitro-2-methylphenol	20.25	198	82565	21.98	ul/l	99
63) Carbazole	22.96	167	605133	21.63	ul/l	100
64) n-Nitrosodiphenylamine	20.32	169	366674	19.49	ul/l	100
65) 1,2-Diphenylhydrazine	20.39	77	635197	24.05	ul/l	97
66) Azobenzene	20.39	77	635197	24.05	ul/l	97
67) 4-Bromophenyl-phenylether	21.23	248	125120	18.49	ul/l	98
68) Hexachlorobenzene	21.58	284	141207	16.74	ul/l #	39
69) Atrazine	21.82	58	121964	28.53	ul/l	93
70) Pentachlorophenol	22.05	266	92152	18.41	ul/l	97
71) Phenanthrene	22.40	178	624103	20.91	ul/l	98
72) Anthracene	22.52	178	628411	20.71	ul/l	97
73) Di-n-butylphthalate	24.08	149	884201	21.99	ul/l	99
74) Fluoranthene	25.47	202	682694	20.34	ul/l	97
76) Benzidine	25.84	184	283594	24.55	ul/l	97
77) Pyrene	26.04	202	697474	22.48	ul/l	96
79) Butylbenzylphthalate	27.89	149	412753	24.89	ul/l	97
80) 3,3'-Dichlorobenzidine	29.13	252	252232	19.00	ul/l	99
81) Benzo[a]anthracene	29.12	228	699974	21.52	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.43	149	578569	25.00	ul/l	95
83) Chrysene	29.25	228	617614	22.95	ul/l	97
85) Di-n-octylphthalate	30.90	149	1020040m	24.37	ul/l	
86) Benzo[b]fluoranthene	31.74	252	646102	19.83	ul/l	94
87) Benzo[k]fluoranthene	31.80	252	600976	19.86	ul/l	93
88) Benzo[a]pyrene	32.45	252	631870	20.71	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.89	276	696415	20.71	ul/l	76
90) Dibenz[a,h]anthracene	34.91	278	580350	19.84	ul/l	90
91) Benzo[g,h,i]perylene	35.50	276	571001	21.98	ul/l	89

Data File : D:\E\DATA15\DEC15\E1208\E9456.D  
Acq On : 8 Dec 2015 15:48  
Sample : S5L0816-CAL3  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 9:12 2016

Vial: 4  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



Data File : D:\E\DATA15\DEC15\E1208\E9457.D

Vial: 5

Acq On : 8 Dec 2015 16:33

Operator: JMM

Sample : S5L0816-CAL4

Inst : GC/MS E

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.78	152	278594	40.00	ul/l	0.00
21) Naphthalene-d8	14.03	136	1237013	40.00	ul/l	0.00
37) Acenaphthene-d10	18.59	164	589522	40.00	ul/l	0.00
61) Phenanthrene-d10	22.36	188	982841	40.00	ul/l	0.00
75) Chrysene-d12	29.21	240	1101149	40.00	ul/l	0.00
84) Perylene-d12	32.61	264	1017361	40.00	ul/l	0.00

## System Monitoring Compounds

4) 2-Fluorophenol	7.79	112	567685	55.09	ul/l	0.00
Spiked Amount	120.000	Range 15 - 110	Recovery =	45.91%		
7) Phenol-d5	10.16	99	827765	56.96	ul/l	0.00
Spiked Amount	120.000	Range 15 - 110	Recovery =	47.47%		
22) Nitrobenzene-d5	12.26	82	661970	57.41	ul/l	0.00
Spiked Amount	100.000	Range 30 - 130	Recovery =	57.41%		
42) 2-Fluorobiphenyl	16.90	172	1013837	51.01	ul/l	0.00
Spiked Amount	100.000	Range 15 - 110	Recovery =	51.01%		
60) 2,4,6-Tribromophenol	20.64	330	191484	38.20	ul/l	0.00
Spiked Amount	120.000	Range 15 - 110	Recovery =	31.83%		
78) Terphenyl-d14	26.53	244	1133769	52.92	ul/l	0.00
Spiked Amount	100.000	Range 30 - 130	Recovery =	52.92%		

## Target Compounds

						Qvalue
2) Pyridine	4.41	79	625027	53.86	ul/l	93
3) N-Nitrosodimethylamine	4.48	74	508586	60.38	ul/l	92
5) Benzaldehyde	9.71	77	72490	39.17	ul/l	92
6) Aniline	10.10	93	1083771	58.20	ul/l	95
8) Phenol	10.19	94	895022	58.25	ul/l	97
9) bis(2-Chloroethyl)ether	10.30	93	779215	57.96	ul/l	76
10) 2-Chlorophenol	10.35	128	616642	57.56	ul/l	91
11) 1,3-Dichlorobenzene	10.69	146	588747	55.44	ul/l	98
12) 1,4-Dichlorobenzene	10.82	146	620554	56.37	ul/l	99
13) Benzyl alcohol	11.26	79	588151	60.01	ul/l	88
14) 1,2-Dichlorobenzene	11.28	146	603959	55.69	ul/l	98
15) 2-Methylphenol	11.64	108	627074	58.51	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.66	45	1606094	83.51	ul/l #	74
17) Acetophenone	11.91	105	803592	49.01	ul/l	93
18) 3&4-Methylphenol	12.03	108	693169	58.42	ul/l	95
19) N-Nitroso-di-n-propylamine	12.05	70	643204	66.52	ul/l	90
20) Hexachloroethane	12.05	117	285107	62.01	ul/l	95
23) Nitrobenzene	12.32	77	741329	57.99	ul/l	93
24) Isophorone	12.95	82	1556039	56.59	ul/l	97
25) 2-Nitrophenol	13.13	139	354408	55.76	ul/l	96
26) 2,4-Dimethylphenol	13.34	107	591920	53.98	ul/l	97
27) Benzoic Acid	13.84	122	275321m	46.00	ul/l	
28) bis(2-Chloroethoxy)methane	13.57	93	902837	56.23	ul/l	99
29) 2,4-Dichlorophenol	13.75	162	469290	51.45	ul/l	98
30) 1,2,4-Trichlorobenzene	13.93	180	464994	49.80	ul/l	98
31) Naphthalene	14.08	128	1744824	55.03	ul/l	99
32) 4-Chloroaniline	14.31	127	801668	56.35	ul/l	99
33) Hexachlorobutadiene	14.59	225	249965	46.59	ul/l #	60
34) Caprolactam	15.33	55	323854	40.80	ul/l	95
35) 4-Chloro-3-methylphenol	15.65	107	500219	51.42	ul/l	98
36) 2-Methylnaphthalene	15.86	142	1133728	52.56	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.40	216	455824	41.86	ul/l	97
39) Hexachlorocyclopentadiene	16.46	237	276939	49.12	ul/l	96
40) 2,4,6-Trichlorophenol	16.69	196	323336	51.16	ul/l	98
41) 2,4,5-Trichlorophenol	16.79	196	339327	50.37	ul/l	99
43) 1,1'-Biphenyl	17.11	154	1373714	49.21	ul/l	95
44) 2-Chloronaphthalene	17.10	162	1083929	55.81	ul/l	98
45) 2-Nitroaniline	17.49	65	397680	61.97	ul/l	90
46) Dimethylphthalate	18.10	163	1116385	49.70	ul/l	99
47) Acenaphthylene	18.18	152	1568879	51.28	ul/l	99
48) 3-Nitroaniline	18.59	138	399668	60.45	ul/l	97

(#)= qualifier out of range (m) = manual integration

E9457.D SVE81208.M Wed Jan 13 12:56:28 2016

Data File : D:\E\DATA15\DEC15\E1208\E9457.D  
 Acq On : 8 Dec 2015 16:33  
 Sample : S5L0816-CAL4  
 Misc :

Vial: 5  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:12 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.68	153	1000885	54.91	ul/l	98
50) 2,4-Dinitrophenol	18.83	184	161245	47.81	ul/l	98
51) 4-Nitrophenol	19.07	109	117698	54.82	ul/l #	1
52) Dibenzofuran	19.09	168	1357058	51.69	ul/l #	59
53) 2,6-Dinitrotoluene	18.25	165	291110	55.07	ul/l	96
54) 2,4-Dinitrotoluene	19.25	165	366452	53.71	ul/l	96
55) 2,3,4,6-tetrachlorophenol	19.53	232	291162	48.14	ul/l	97
56) Diethylphthalate	19.93	149	1173365	51.40	ul/l	100
57) 4-Chlorophenyl-phenylether	20.00	204	532114	49.89	ul/l	95
58) Fluorene	19.97	166	1172774	51.26	ul/l	99
59) 4-Nitroaniline	20.21	138	363420	61.61	ul/l	98
62) 4,6-Dinitro-2-methylphenol	20.30	198	227592	55.26	ul/l	99
63) Carbazole	22.98	167	1442509	56.97	ul/l	100
64) n-Nitrosodiphenylamine	20.36	169	948983	55.71	ul/l	98
65) 1,2-Diphenylhydrazine	20.41	77	1655313m	69.22	ul/l	
66) Azobenzene	20.41	77	1658431m	69.35	ul/l	
67) 4-Bromophenyl-phenylether	21.25	248	309911	50.59	ul/l	97
68) Hexachlorobenzene	21.60	284	352977	46.24	ul/l #	72
69) Atrazine	21.86	58	288890	74.64	ul/l	94
70) Pentachlorophenol	22.07	266	239841	52.92	ul/l	97
71) Phenanthrene	22.43	178	1530513	56.64	ul/l	99
72) Anthracene	22.54	178	1534858	55.88	ul/l	99
73) Di-n-butylphthalate	24.09	149	2059945	56.60	ul/l	100
74) Fluoranthene	25.49	202	1600745	52.68	ul/l	98
76) Benzidine	25.87	184	726149	68.54	ul/l	98
77) Pyrene	26.06	202	1647188	57.54	ul/l	98
79) Butylbenzylphthalate	27.91	149	973819	63.65	ul/l	97
80) 3,3'-Dichlorobenzidine	29.16	252	668529	54.59	ul/l	98
81) Benzo[a]anthracene	29.16	228	1726933	57.53	ul/l	99
82) bis(2-Ethylhexyl)phthalate	29.44	149	1374916	64.40	ul/l	98
83) Chrysene	29.28	228	1511899	60.89	ul/l	98
85) Di-n-octylphthalate	30.92	149	2378381m	63.27	ul/l	
86) Benzo[b]fluoranthene	31.77	252	1614640	55.19	ul/l	95
87) Benzo[k]fluoranthene	31.84	252	1527950m	56.22	ul/l	
88) Benzo[a]pyrene	32.49	252	1544639	56.38	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.95	276	1749595	57.94	ul/l	78
90) Dibenz[a,h]anthracene	34.97	278	1515227	57.67	ul/l	92
91) Benzo[g,h,i]perylene	35.56	276	1393875	59.75	ul/l	89

(#) = qualifier out of range (m) = manual integration

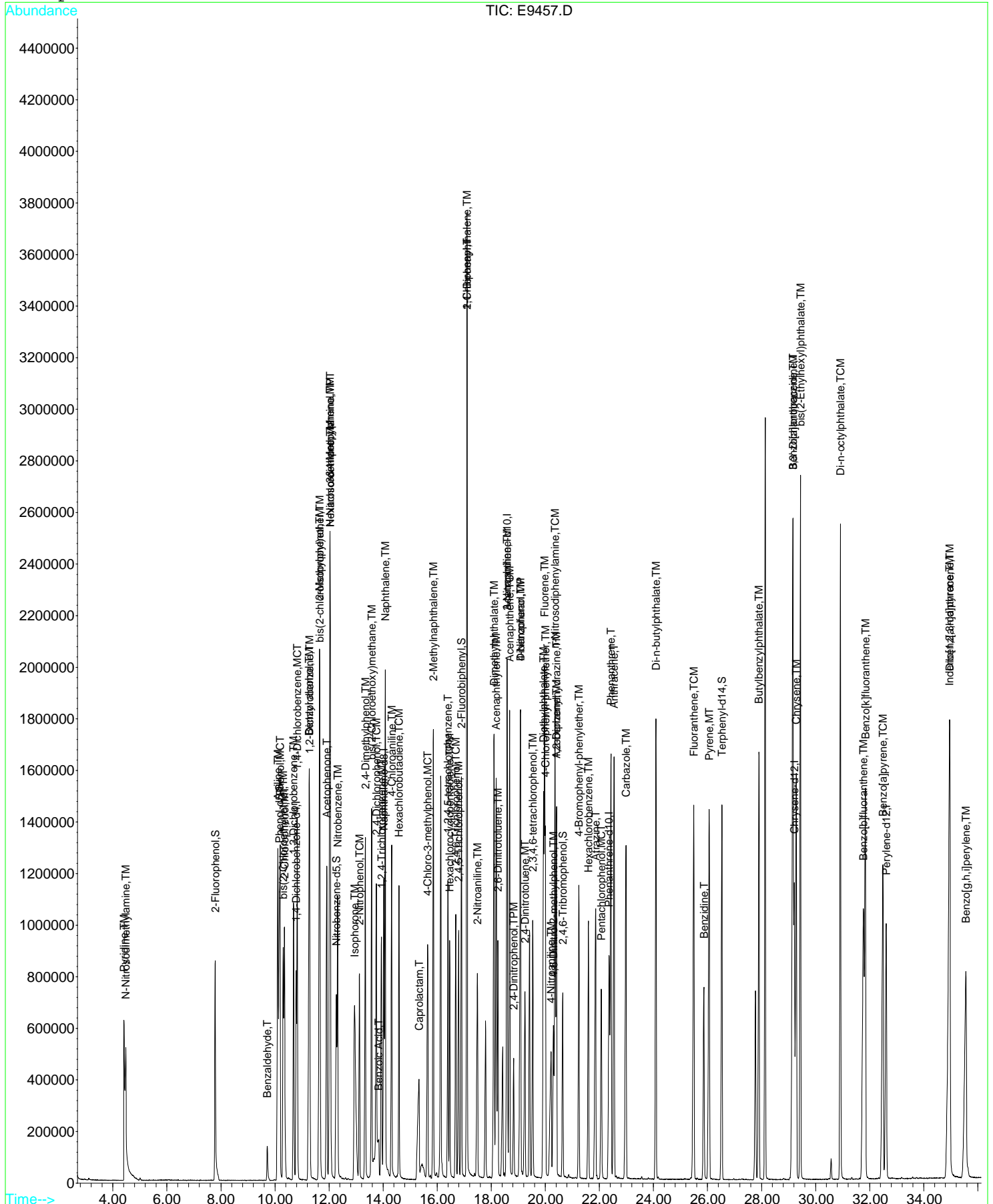
E9457.D SVE81208.M Wed Jan 13 12:56:29 2016

Data File : D:\E\DATA15\DEC15\E1208\E9457.D  
Acq On : 8 Dec 2015 16:33  
Sample : S5L0816-CAL4  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 9:12 2016

Vial: 5  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



Data File : D:\E\DATA15\DEC15\E1208\E9458.D

Vial: 6

Acq On : 8 Dec 2015 18:02

Operator: JMM

Sample : S5L0816-CAL5

Inst : GC/MS E

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:13 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.79	152	345658	40.00	ul/l	0.00
21) Naphthalene-d8	14.04	136	1543133	40.00	ul/l	0.01
37) Acenaphthene-d10	18.60	164	736653	40.00	ul/l	0.00
61) Phenanthrene-d10	22.37	188	1201935	40.00	ul/l	0.01
75) Chrysene-d12	29.23	240	1488286	40.00	ul/l	0.01
84) Perylene-d12	32.63	264	1267770	40.00	ul/l	0.01

## System Monitoring Compounds

4) 2-Fluorophenol	7.80	112	1073739	83.98	ul/l	0.01
Spiked Amount 120.000	Range 15 - 110		Recovery =	69.98%		
7) Phenol-d5	10.19	99	1571385	87.15	ul/l	0.04
Spiked Amount 120.000	Range 15 - 110		Recovery =	72.63%		
22) Nitrobenzene-d5	12.29	82	1247404	86.72	ul/l	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	86.72%		
42) 2-Fluorobiphenyl	16.91	172	1886841	75.98	ul/l	0.01
Spiked Amount 100.000	Range 15 - 110		Recovery =	75.98%		
60) 2,4,6-Tribromophenol	20.67	330	368601	58.85	ul/l	0.02
Spiked Amount 120.000	Range 15 - 110		Recovery =	49.04%		
78) Terphenyl-d14	26.55	244	2117295	73.12	ul/l	0.01
Spiked Amount 100.000	Range 30 - 130		Recovery =	73.12%		

## Target Compounds

						Qvalue
2) Pyridine	4.41	79	1130887	78.55	ul/l	94
3) N-Nitrosodimethylamine	4.49	74	940879	90.03	ul/l	89
5) Benzaldehyde	9.71	77	162646	70.84	ul/l	95
6) Aniline	10.12	93	1978448	85.63	ul/l	96
8) Phenol	10.22	94	1701345	89.24	ul/l	97
9) bis(2-Chloroethyl)ether	10.31	93	1459097	87.48	ul/l	76
10) 2-Chlorophenol	10.36	128	1191001	89.60	ul/l	90
11) 1,3-Dichlorobenzene	10.69	146	1107045	84.02	ul/l	98
12) 1,4-Dichlorobenzene	10.83	146	1174434	85.98	ul/l	99
13) Benzyl alcohol	11.29	79	1131207	93.02	ul/l	92
14) 1,2-Dichlorobenzene	11.29	146	1187067	88.22	ul/l	100
15) 2-Methylphenol	11.67	108	1223836	92.03	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.67	45	2935830	123.04	ul/l #	72
17) Acetophenone	11.94	105	1481587	72.82	ul/l	93
18) 3&4-Methylphenol	12.06	108	1454727	98.82	ul/l	99
19) N-Nitroso-di-n-propylamine	12.08	70	1196116	99.70	ul/l	92
20) Hexachloroethane	12.05	117	581502	101.93	ul/l	94
23) Nitrobenzene	12.34	77	1389454	87.13	ul/l	94
24) Isophorone	13.01	82	2882934	84.04	ul/l	95
25) 2-Nitrophenol	13.14	139	689057	86.90	ul/l	96
26) 2,4-Dimethylphenol	13.38	107	1105766	80.84	ul/l	99
27) Benzoic Acid	13.95	122	641103m	85.86	ul/l	
28) bis(2-Chloroethoxy)methane	13.60	93	1662519	83.00	ul/l	100
29) 2,4-Dichlorophenol	13.78	162	897994	78.92	ul/l	99
30) 1,2,4-Trichlorobenzene	13.95	180	885949	76.06	ul/l	99
31) Naphthalene	14.10	128	3188450	80.61	ul/l	96
32) 4-Chloroaniline	14.33	127	1516343	85.44	ul/l	99
33) Hexachlorobutadiene	14.59	225	479147	71.58	ul/l #	60
34) Caprolactam	15.44	55	790957m	79.88	ul/l	
35) 4-Chloro-3-methylphenol	15.68	107	939881	77.45	ul/l	99
36) 2-Methylnaphthalene	15.87	142	2146040	79.76	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.41	216	870633	63.98	ul/l	99
39) Hexachlorocyclopentadiene	16.47	237	526692	72.17	ul/l	98
40) 2,4,6-Trichlorophenol	16.71	196	619520	78.44	ul/l	98
41) 2,4,5-Trichlorophenol	16.83	196	634070	75.32	ul/l	99
43) 1,1'-Biphenyl	17.13	154	2654972	76.12	ul/l	94
44) 2-Chloronaphthalene	17.12	162	2118073	87.27	ul/l	96
45) 2-Nitroaniline	17.52	65	745360	92.95	ul/l	90
46) Dimethylphthalate	18.15	163	2127944	75.81	ul/l	99
47) Acenaphthylene	18.21	152	3023581	79.10	ul/l	99
48) 3-Nitroaniline	18.63	138	740787	89.67	ul/l	98

(#)= qualifier out of range (m) = manual integration

E9458.D SVE81208.M Wed Jan 13 12:56:35 2016



Data File : D:\E\DATA15\DEC15\E1208\E9458.D  
 Acq On : 8 Dec 2015 18:02  
 Sample : S5L0816-CAL5  
 Misc :

Vial: 6  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:13 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.71	153	1882950	82.68	ul/l	99
50) 2,4-Dinitrophenol	18.87	184	333040	74.56	ul/l	98
51) 4-Nitrophenol	19.13	109	223582	83.34	ul/l #	1
52) Dibenzofuran	19.10	168	2527174	77.03	ul/l #	55
53) 2,6-Dinitrotoluene	18.28	165	547804	82.93	ul/l	97
54) 2,4-Dinitrotoluene	19.30	165	682010	80.00	ul/l	96
55) 2,3,4,6-tetrachlorophenol	19.56	232	565884	74.88	ul/l	97
56) Diethylphthalate	19.97	149	2361382	82.78	ul/l	98
57) 4-Chlorophenyl-phenylether	20.02	204	1102840	82.74	ul/l	93
58) Fluorene	19.99	166	2453113	85.80	ul/l	98
59) 4-Nitroaniline	20.29	138	671100	91.05	ul/l	98
62) 4,6-Dinitro-2-methylphenol	20.36	198	471540	81.94	ul/l	98
63) Carbazole	23.01	167	2645439	85.43	ul/l	99
64) n-Nitrosodiphenylamine	20.39	169	1894602	90.95	ul/l	97
65) 1,2-Diphenylhydrazine	20.44	77	3262136	111.55	ul/l	75
66) Azobenzene	20.44	77	3262136	111.55	ul/l	75
67) 4-Bromophenyl-phenylether	21.26	248	586028	78.23	ul/l	97
68) Hexachlorobenzene	21.61	284	656348	70.31	ul/l #	72
69) Atrazine	21.90	58	519346	109.73	ul/l	93
70) Pentachlorophenol	22.10	266	449197	81.05	ul/l	98
71) Phenanthrene	22.45	178	2793717	84.54	ul/l	99
72) Anthracene	22.57	178	2840885	84.58	ul/l	99
73) Di-n-butylphthalate	24.11	149	3668179	82.41	ul/l	99
74) Fluoranthene	25.52	202	2905794	78.20	ul/l	99
76) Benzidine	25.89	184	1383441	96.72	ul/l	97
77) Pyrene	26.09	202	3026238	78.21	ul/l	100
79) Butylbenzylphthalate	27.92	149	1770314	85.61	ul/l	96
80) 3,3'-Dichlorobenzidine	29.20	252	1386878	83.79	ul/l	98
81) Benzo[a]anthracene	29.18	228	3284691	80.97	ul/l	99
82) bis(2-Ethylhexyl)phthalate	29.46	149	2582509	89.50	ul/l	98
83) Chrysene	29.32	228	2868449	85.47	ul/l	98
85) Di-n-octylphthalate	30.95	149	4304347m	91.89	ul/l	
86) Benzo[b]fluoranthene	31.83	252	3120152m	85.59	ul/l	
87) Benzo[k]fluoranthene	31.88	252	2807670m	82.90	ul/l	
88) Benzo[a]pyrene	32.52	252	2868271	84.02	ul/l	95
89) Indeno[1,2,3-cd]pyrene	35.03	276	3209090	85.29	ul/l	79
90) Dibenz[a,h]anthracene	35.02	278	2774852	84.75	ul/l	94
91) Benzo[g,h,i]perylene	35.62	276	2483754	85.43	ul/l	90

(#) = qualifier out of range (m) = manual integration

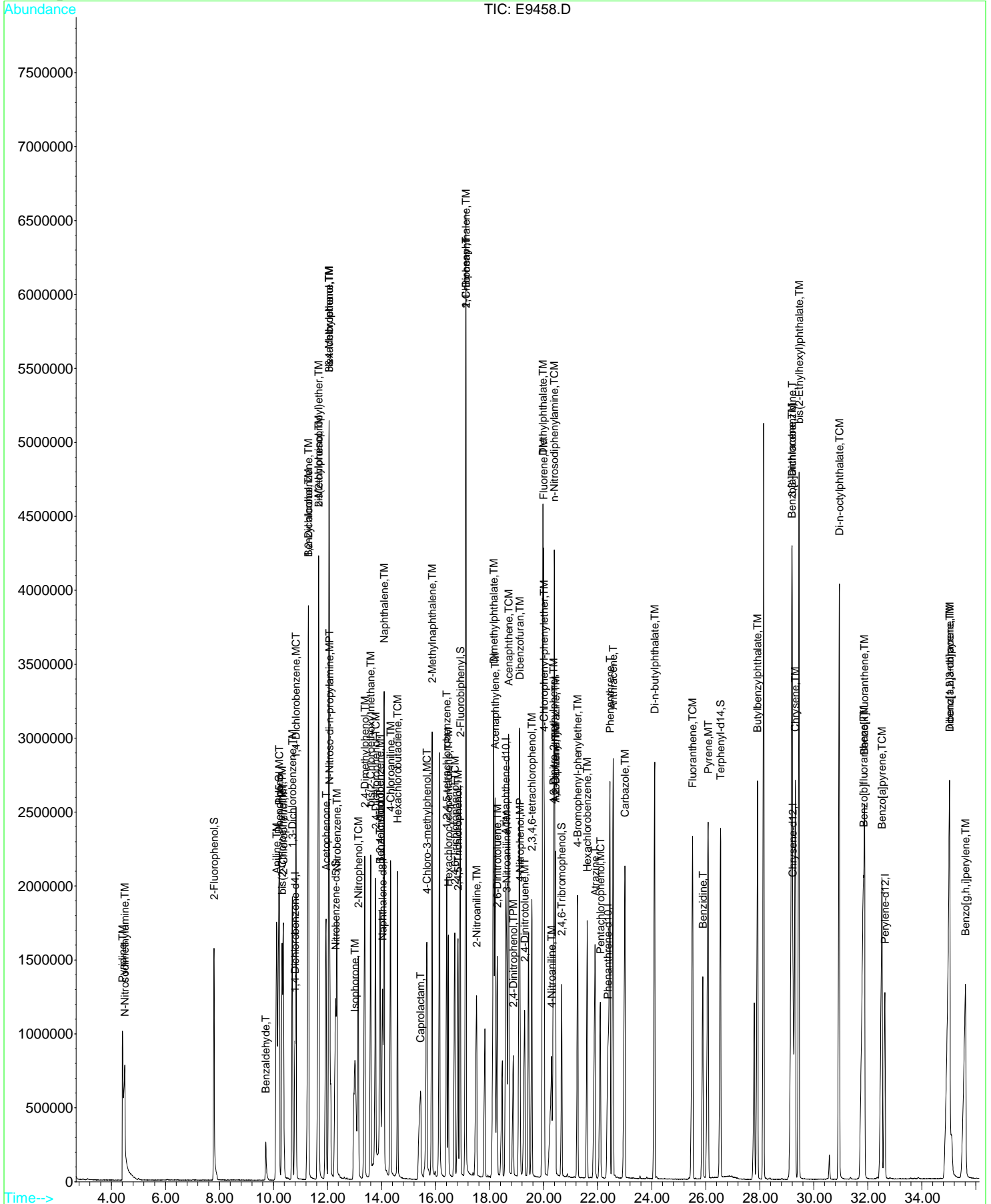
E9458.D SVE81208.M Wed Jan 13 12:56:36 2016

Data File : D:\E\DATA15\DEC15\E1208\E9458.D  
Acq On : 8 Dec 2015 18:02  
Sample : S5L0816-CAL5  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jan 6 9:13 2016

Vial: 6  
Operator: JMM  
Inst : GC/MS E  
Multiplr: 1.00

Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)  
Title : SEMI-VOA 8270 TCL HP5971E  
Last Update : Thu Jan 07 09:10:48 2016  
Response via : Initial Calibration



Data File : D:\E\DATA15\DEC15\E1208\E9459.D  
 Acq On : 8 Dec 2015 18:47  
 Sample : S5L0816-CAL6  
 Misc :

Vial: 7  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:13 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.79	152	306564	40.00	ul/l	0.00
21) Naphthalene-d8	14.04	136	1349489	40.00	ul/l	0.01
37) Acenaphthene-d10	18.60	164	598637	40.00	ul/l	0.00
61) Phenanthrene-d10	22.38	188	1007028	40.00	ul/l	0.02
75) Chrysene-d12	29.23	240	1316783	40.00	ul/l	0.02
84) Perylene-d12	32.64	264	1034490	40.00	ul/l	0.02

## System Monitoring Compounds

4) 2-Fluorophenol	7.80	112	1460246	128.78	ul/l	0.02
Spiked Amount 120.000	Range 15 - 110		Recovery =	107.32%		
7) Phenol-d5	10.21	99	2135373	133.53	ul/l	0.05
Spiked Amount 120.000	Range 15 - 110		Recovery =	111.27%#		
22) Nitrobenzene-d5	12.30	82	1653820	131.47	ul/l	0.04
Spiked Amount 100.000	Range 30 - 130		Recovery =	131.47%#		
42) 2-Fluorobiphenyl	16.93	172	2518803	124.81	ul/l	0.02
Spiked Amount 100.000	Range 15 - 110		Recovery =	124.81%#		
60) 2,4,6-Tribromophenol	20.68	330	490905	96.45	ul/l	0.04
Spiked Amount 120.000	Range 15 - 110		Recovery =	80.38%		
78) Terphenyl-d14	26.56	244	2786534	108.77	ul/l	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	108.77%		

## Target Compounds

						Qvalue
2) Pyridine	4.40	79	1487874	116.53	ul/l	93
3) N-Nitrosodimethylamine	4.49	74	1272008	137.24	ul/l	90
5) Benzaldehyde	9.70	77	160821	78.98	ul/l	93
6) Aniline	10.12	93	2597548	126.76	ul/l	95
8) Phenol	10.24	94	2301700	136.13	ul/l	98
9) bis(2-Chloroethyl)ether	10.33	93	1973493	133.40	ul/l	77
10) 2-Chlorophenol	10.38	128	1630641	138.32	ul/l	90
11) 1,3-Dichlorobenzene	10.69	146	1477598	126.44	ul/l	97
12) 1,4-Dichlorobenzene	10.84	146	1560975	128.85	ul/l	98
13) Benzyl alcohol	11.32	79	1520881	141.02	ul/l	91
14) 1,2-Dichlorobenzene	11.29	146	1570175	131.58	ul/l	99
15) 2-Methylphenol	11.68	108	1669915	141.59	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.68	45	3827167	180.85	ul/l #	70
17) Acetophenone	11.96	105	1936143	107.30	ul/l	93
18) 3&4-Methylphenol	12.08	108	1902065	145.68	ul/l	98
19) N-Nitroso-di-n-propylamine	12.14	70	1559083m	146.52	ul/l	
20) Hexachloroethane	12.05	117	748321	147.90	ul/l	94
23) Nitrobenzene	12.36	77	1838919	131.86	ul/l	94
24) Isophorone	13.05	82	3771606m	125.72	ul/l	
25) 2-Nitrophenol	13.15	139	933772	134.66	ul/l	96
26) 2,4-Dimethylphenol	13.40	107	1481616	123.86	ul/l	98
27) Benzoic Acid	14.08	122	853324m	130.68	ul/l	
28) bis(2-Chloroethoxy)methane	13.61	93	2174626	124.15	ul/l	99
29) 2,4-Dichlorophenol	13.79	162	1219813	122.58	ul/l	99
30) 1,2,4-Trichlorobenzene	13.95	180	1181676	116.01	ul/l	100
31) Naphthalene	14.10	128	4135597	119.56	ul/l	95
32) 4-Chloroaniline	14.35	127	1993414	128.44	ul/l	100
33) Hexachlorobutadiene	14.60	225	650480	111.13	ul/l #	59
34) Caprolactam	15.51	55	965016m	111.44	ul/l	
35) 4-Chloro-3-methylphenol	15.70	107	1238500	116.70	ul/l	99
36) 2-Methylnaphthalene	15.88	142	2874711	122.17	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.42	216	1177040	106.44	ul/l	98
39) Hexachlorocyclopentadiene	16.48	237	707736	116.09	ul/l	98
40) 2,4,6-Trichlorophenol	16.72	196	830790	129.44	ul/l	98
41) 2,4,5-Trichlorophenol	16.85	196	873991	127.75	ul/l	99
43) 1,1'-Biphenyl	17.14	154	3429637	121.00	ul/l	92
44) 2-Chloronaphthalene	17.13	162	2824816	143.23	ul/l	96
45) 2-Nitroaniline	17.53	65	973960	149.46	ul/l	91
46) Dimethylphthalate	18.17	163	2898403	127.06	ul/l	98
47) Acenaphthylene	18.22	152	4176912	134.46	ul/l	98
48) 3-Nitroaniline	18.66	138	979329	145.87	ul/l	99

(#)=qualifier out of range (m)=manual integration

E9459.D SVE81208.M Wed Jan 13 12:56:44 2016

Data File : D:\E\DATA15\DEC15\E1208\E9459.D  
 Acq On : 8 Dec 2015 18:47  
 Sample : S5L0816-CAL6  
 Misc :

Vial: 7  
 Operator: JMM  
 Inst : GC/MS E  
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 6 9:13 2016

Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)

Title : SEMI-VOA 8270 TCL HP5971E

Last Update : Mon Dec 07 13:09:48 2015

Response via : Initial Calibration

DataAcq Meth : SVE81207

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	18.72	153	2535635	137.00	ul/l	99
50) 2,4-Dinitrophenol	18.90	184	462332	122.52	ul/l	98
51) 4-Nitrophenol	19.16	109	283291	129.95	ul/l #	1
52) Dibenzofuran	19.12	168	3264546	122.45	ul/l	75
53) 2,6-Dinitrotoluene	18.31	165	725009	135.07	ul/l	99
54) 2,4-Dinitrotoluene	19.33	165	887332	128.08	ul/l	97
55) 2,3,4,6-tetrachlorophenol	19.58	232	763279	124.29	ul/l	96
56) Diethylphthalate	19.99	149	3157135	136.19	ul/l	95
57) 4-Chlorophenyl-phenylether	20.03	204	1533391	141.57	ul/l	92
58) Fluorene	20.01	166	3333822	143.49	ul/l	97
59) 4-Nitroaniline	20.33	138	888084	148.27	ul/l	97
62) 4,6-Dinitro-2-methylphenol	20.39	198	696908	121.76	ul/l	83
63) Carbazole	23.03	167	3435665	132.42	ul/l	98
64) n-Nitrosodiphenylamine	20.42	169	2606472	149.34	ul/l	96
65) 1,2-Diphenylhydrazine	20.46	77	4361468m	178.01	ul/l	
66) Azobenzene	20.46	77	4360288m	177.96	ul/l	
67) 4-Bromophenyl-phenylether	21.27	248	782720	124.71	ul/l	97
68) Hexachlorobenzene	21.63	284	873824	111.72	ul/l #	71
69) Atrazine	21.93	58	663933	167.43	ul/l	92
70) Pentachlorophenol	22.11	266	594150	127.95	ul/l	98
71) Phenanthrene	22.47	178	3618667	130.70	ul/l	98
72) Anthracene	22.59	178	3669442	130.40	ul/l	98
73) Di-n-butylphthalate	24.12	149	4681032	125.52	ul/l	98
74) Fluoranthene	25.53	202	3750729	120.48	ul/l	98
76) Benzidine	25.91	184	1808065	142.98	ul/l	98
77) Pyrene	26.10	202	3940159	115.10	ul/l	99
79) Butylbenzylphthalate	27.94	149	2324134	127.02	ul/l	96
80) 3,3'-Dichlorobenzidine	29.22	252	1818898	124.20	ul/l	98
81) Benzo[a]anthracene	29.20	228	4244989	118.27	ul/l	99
82) bis(2-Ethylhexyl)phthalate	29.46	149	3359786	131.60	ul/l	96
83) Chrysene	29.34	228	3720577	125.30	ul/l	98
85) Di-n-octylphthalate	30.95	149	5552260m	145.25	ul/l	
86) Benzo[b]fluoranthene	31.85	252	3987182m	134.03	ul/l	
87) Benzo[k]fluoranthene	31.90	252	3764006m	136.20	ul/l	
88) Benzo[a]pyrene	32.54	252	3707994	133.11	ul/l	95
89) Indeno[1,2,3-cd]pyrene	35.06	276	4133348	134.62	ul/l	80
90) Dibenz[a,h]anthracene	35.05	278	3592498	134.46	ul/l	94
91) Benzo[g,h,i]perylene	35.63	276	3057820	128.90	ul/l	90

(#) = qualifier out of range (m) = manual integration

E9459.D SVE81208.M Wed Jan 13 12:56:44 2016



# VOLATILES SAMPLE DATA

# VOLATILES SAMPLE DATA



## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	20.8	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U





## ANALYSIS DATA SHEET

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.40	2.81	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U



## ANALYSIS DATA SHEET

### EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Client Sample ID:** EP-18  
**Lab Sample ID:** 1502323-01  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Date Sampled: 12/23/15 10:10	Prep Date: 12/23/15 23:47	Matrix: Soil
Percent Solids: 71.30	Prep Method: EPA 5035A	File ID: D13585.D
Prep Batch: B5L2319	Sequence: S5L2311	Analyzed: 12/23/15 23:47
Dilution: 1		Analyst: SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	1.73	1.40	2.81	J
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	79%	70-130

\* Values outside of QC limits  
 ND - Indicates compound analyzed for but not detected  
 U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value for TICs and all results when detected below the RL  
 B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns.  
 MDL - Minimum detection limit  
 RL - Reporting limit

Data File : D:\D\DATA15\DEC15\D1223\D13585.D  
 Acq On : 23 Dec 2015 23:47  
 Sample : 1502323-01  
 Misc : SOIL

Vial: 22  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 24 11:19 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Mon Dec 07 10:21:05 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.49	168	470992	50.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.19	114	872380	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.23	117	612565	50.00	ug/l	0.01
60) 1,4-Dichlorobenzene-d4	14.23	152	191112	50.00	ug/l	0.00

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.48	65	189130	55.31	ug/l	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.62%
41) Toluene-d8	9.08	98	873223	49.29	ug/l	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.58%
47) Bromofluorobenzene	12.84	95	203073	39.28	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.56%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Acetone	3.35	43	20668	14.81	ug/l	76
72) p-Isopropyltoluene	14.08	119	17924	1.23	ug/l	94

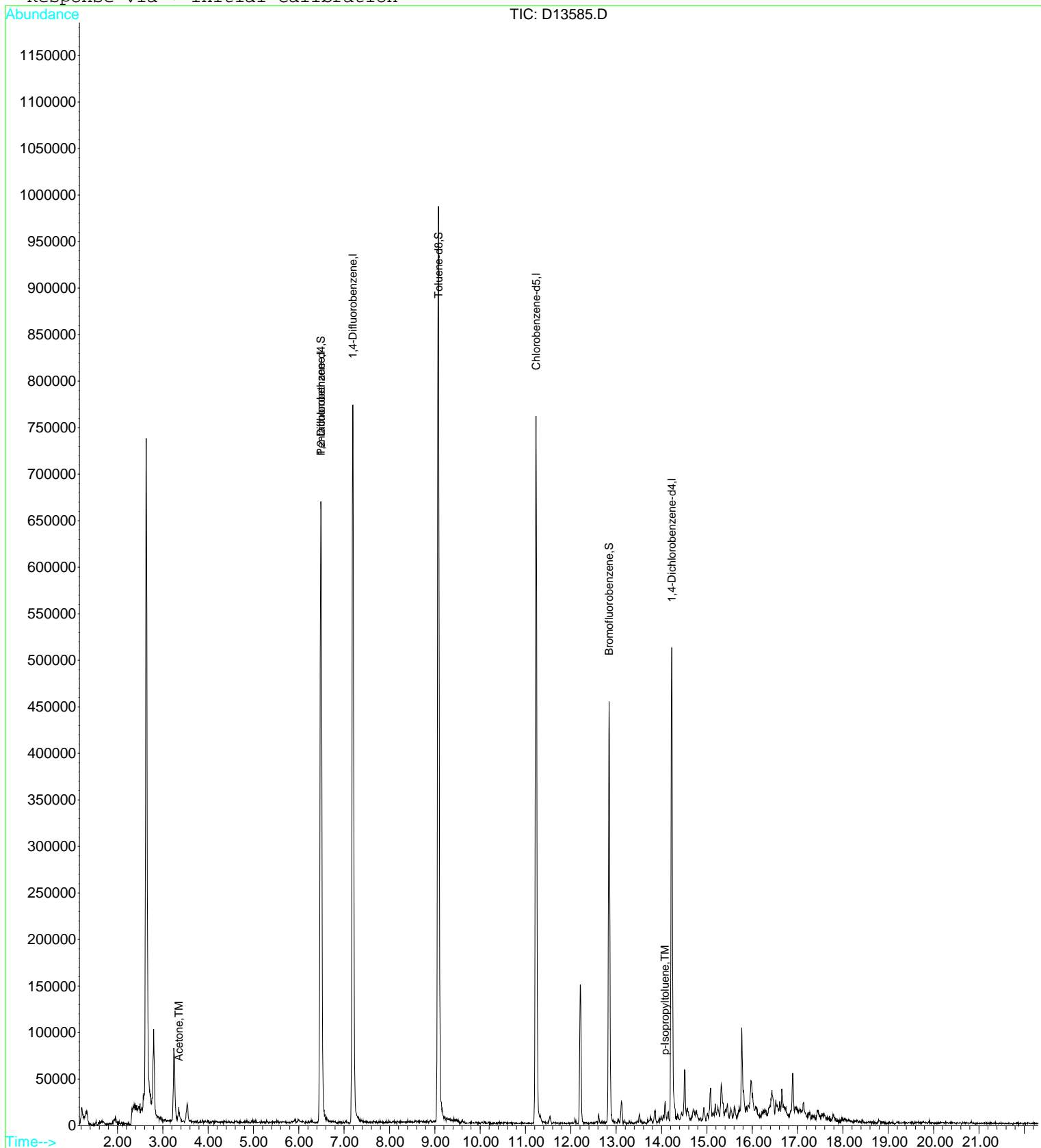
(#) = qualifier out of range (m) = manual integration

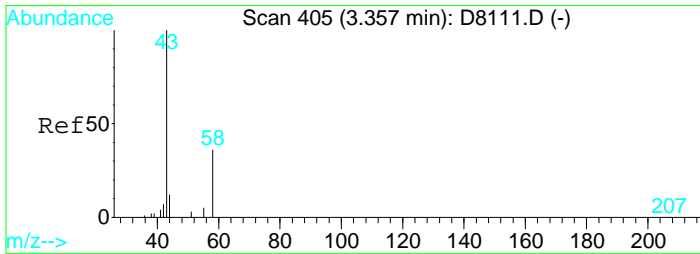
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Acq On : 23 Dec 2015 23:47  
Sample : 1502323-01  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 24 11:19 2015

Vial: 22  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

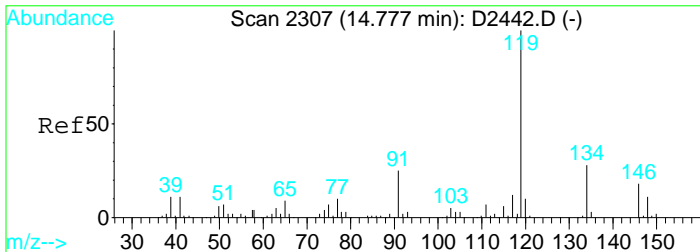
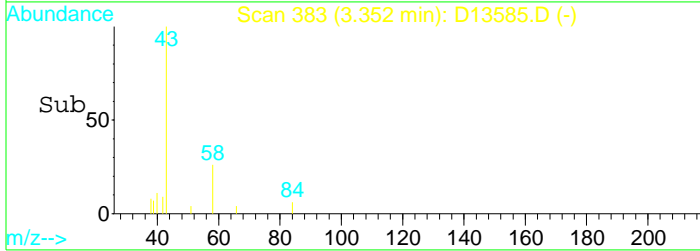
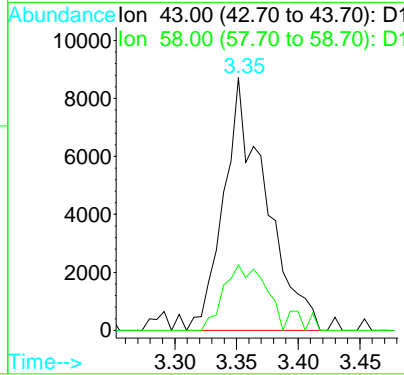
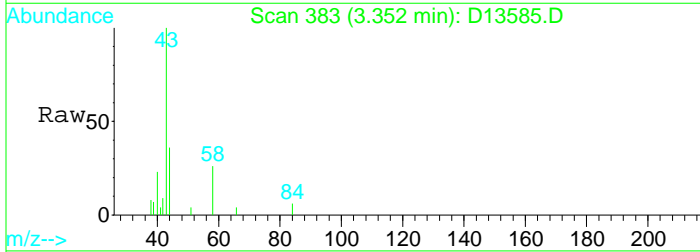
Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration





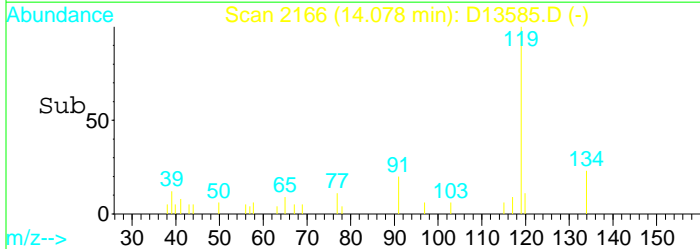
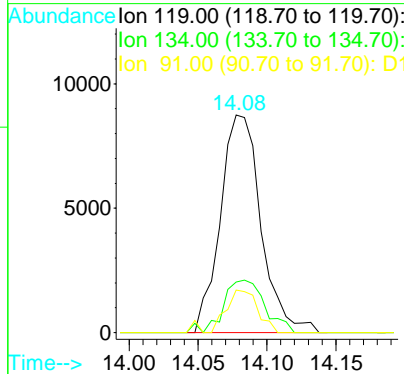
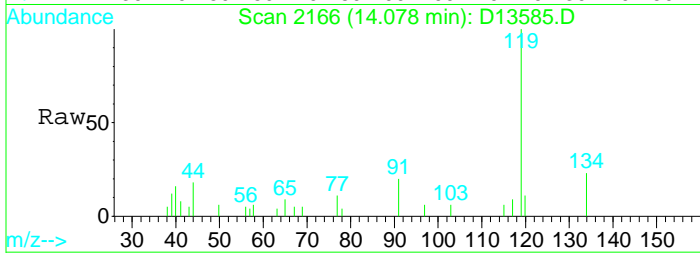
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 Concen: 14.81 ug/l  
 RT: 3.35 min Scan# 383  
 Delta R.T. 0.01 min  
 Lab File: D13585.D  
 Acq: 23 Dec 2015 23:47

Tgt Ion	Resp	Lower	Upper
43	100		
58	25.8	20.5	60.5



#72  
 p-Isopropyltoluene  
 Concen: 1.23 ug/l  
 RT: 14.08 min Scan# 2166  
 Delta R.T. -0.00 min  
 Lab File: D13585.D  
 Acq: 23 Dec 2015 23:47

Tgt Ion	Resp	Lower	Upper
119	100		
134	23.2	0.0	77.6
91	19.6	0.0	68.8



# VOLATILES QC DATA



## ANALYSIS DATA SHEET

Blank

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	2.71	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U



## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U





## ANALYSIS DATA SHEET

Blank

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U
	<b><u>Surrogate</u></b>	<b><u>% Recovery</u></b>		<b><u>Recovery Limits</u></b>	
	1,2-Dichloroethane-d4	102%		70-130	
	Toluene-d8	102%		70-130	
	Bromofluorobenzene	98%		70-130	

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\* Values outside of QC limits

ND - Indicates compound analyzed for but not detected

U - Indicates compound analyzed for but not detected

J - Indicates estimated value for TICs and all results when detected below the RL

B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution

P - Greater than 25% diff. between 2 GC columns.

MDL - Minimum detection limit

RL - Reporting limit

Data File : D:\D\DATA15\DEC15\D1223\D13566.D  
 Acq On : 23 Dec 2015 13:57  
 Sample : B5L2319-BLK1  
 Misc : SOIL

Vial: 3  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 24 9:10 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Mon Dec 07 10:21:05 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	706240	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1268218	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.21	117	976039	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	400217	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.46	65	254282	51.15	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.30%
41) Toluene-d8	9.06	98	1314615	51.05	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.10%
47) Bromofluorobenzene	12.83	95	369078	49.10	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.20%

Target Compounds

15) Methylene Chloride	3.24	49	121003	2.71	ug/l	Qvalue 92
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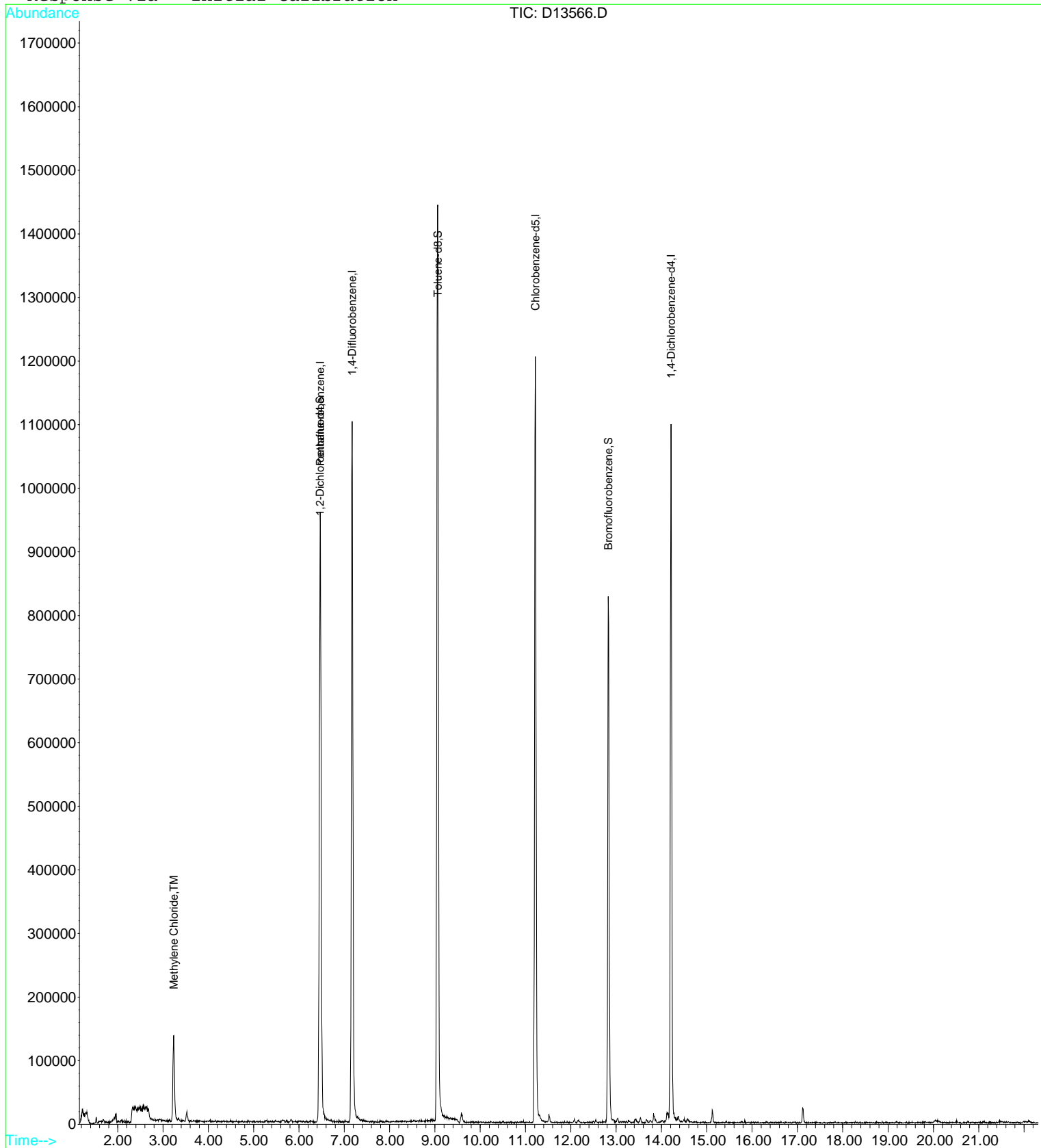
(#) = qualifier out of range (m) = manual integration

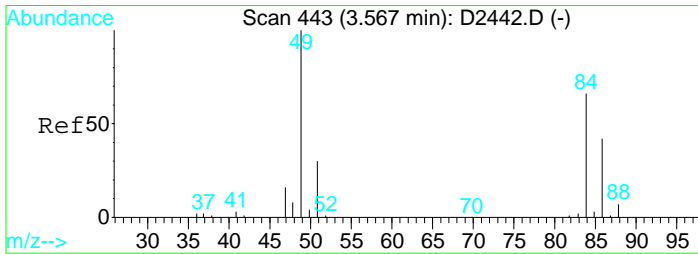
Data File : D:\D\DATA15\DEC15\D1223\D13566.D  
Acq On : 23 Dec 2015 13:57  
Sample : B5L2319-BLK1  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 24 9:10 2015

Vial: 3  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

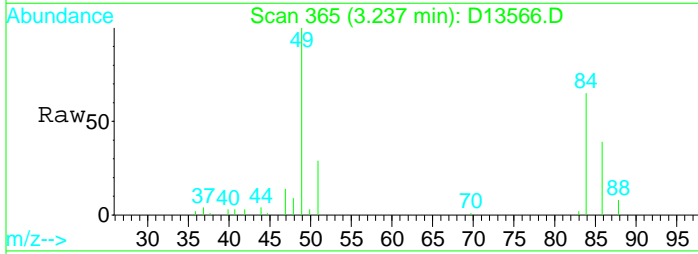
Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



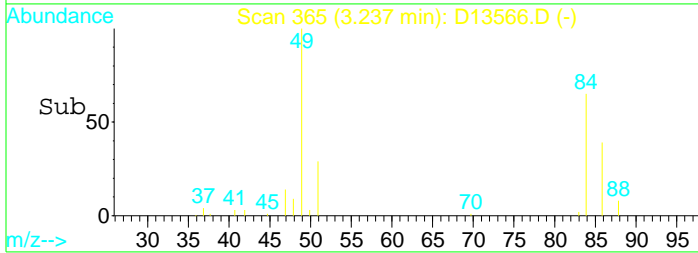
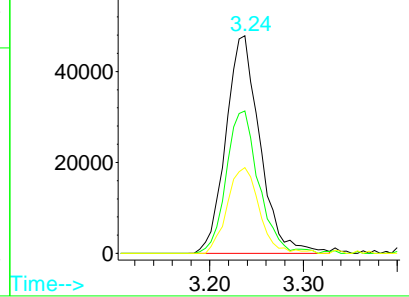


#15  
 Methylene Chloride  
 Concen: 2.71 ug/l  
 RT: 3.24 min Scan# 365  
 Delta R.T. -0.00 min  
 Lab File: D13566.D  
 Acq: 23 Dec 2015 13:57

Tgt Ion	Resp	Lower	Upper
49	121003		
84	65.4	30.7	110.7
86	39.4	6.5	86.5



Abundance Ion 49.00 (48.70 to 49.70): D1  
 Ion 84.00 (83.70 to 84.70): D1  
 Ion 86.00 (85.70 to 86.70): D1



# VOLATILES QC SUMMARY



## SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

**Matrix:** Solid  
**Instrument:** GC/MS D

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Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1502323-01	111	79	99
B5L2319-BLK1	102	98	102
B5L2319-BS1	107	106	104
B5L2319-MS1	108	113	108
B5L2319-MSD1	111	110	104



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Acrolein	351	ND	251	72	40 - 160
Acrylonitrile	351	ND	289	83	70 - 130
Acetone	70.1	ND	56.4	80	40 - 160
Dichlorodifluoromethane	70.1	ND	41.9	60	40 - 160
Chloromethane	70.1	ND	50.0	71	40 - 160
Vinyl chloride	70.1	ND	52.8	75	70 - 130
Bromomethane	70.1	ND	55.8	80	40 - 160
Chloroethane	70.1	ND	55.5	79	40 - 160
Trichlorofluoromethane	70.1	ND	59.2	84	40 - 160
Freon 113	70.1	ND	52.3	75	70 - 130
1,1-Dichloroethene	70.1	ND	60.6	86	70 - 130
Carbon disulfide	70.1	ND	68.2	97	70 - 130
Methyl Acetate	70.1	ND	65.3	93	70 - 130
Methylene Chloride	70.1	ND	68.8	98	70 - 130
trans-1,2-Dichloroethene	70.1	ND	61.2	87	70 - 130
1,1-Dichloroethane	70.1	ND	65.1	93	70 - 130
2,2-Dichloropropane	70.1	ND	65.1	93	70 - 130
2-Butanone	70.1	ND	54.2	77	40 - 160
cis-1,2-Dichloroethene	70.1	ND	63.2	90	70 - 130
Chloroform	70.1	ND	67.1	96	70 - 130
Bromochloromethane	70.1	ND	67.2	96	70 - 130
Cyclohexane	70.1	ND	55.2	79	70 - 130
1,1,1-Trichloroethane	70.1	ND	64.5	92	70 - 130
t-Butyl alcohol	701	ND	649	93	40 - 160
1,1-Dichloropropene	70.1	ND	63.5	91	70 - 130
Carbon Tetrachloride	70.1	ND	65.4	93	70 - 130
1,2-Dichloroethane	70.1	ND	69.7	99	70 - 130





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	70.1	ND	64.6	92	70 - 130
Trichloroethene	70.1	ND	64.8	92	70 - 130
Methylcyclohexane	70.1	ND	55.7	79	70 - 130
1,2-Dichloropropane	70.1	ND	66.1	94	70 - 130
Bromodichloromethane	70.1	ND	66.0	94	70 - 130
Dibromomethane	70.1	ND	71.5	102	70 - 130
2-Chloroethyl vinyl ether	70.1	ND	65.5	93	40 - 160
cis-1,3-Dichloropropene	70.1	ND	69.1	99	70 - 130
Toluene	70.1	ND	67.8	97	70 - 130
trans-1,3-Dichloropropene	70.1	ND	70.1	100	70 - 130
1,1,2-Trichloroethane	70.1	ND	67.9	97	70 - 130
4-Methyl-2-pentanone	70.1	ND	66.3	95	40 - 160
1,2-Dibromoethane	70.1	ND	71.4	102	70 - 130
2-Hexanone	70.1	ND	57.9	83	40 - 160
1,3-Dichloropropane	70.1	ND	65.4	93	70 - 130
Tetrachloroethene	70.1	ND	63.9	91	70 - 130
Dibromochloromethane	70.1	ND	66.5	95	70 - 130
Ethylbenzene	70.1	ND	63.1	90	70 - 130
Chlorobenzene	70.1	ND	62.2	89	70 - 130
1,1,1,2-Tetrachloroethane	70.1	ND	64.2	92	70 - 130
m,p-Xylenes	140	ND	125	89	70 - 130
o-Xylene	140	ND	122	87	70 - 130
Styrene	140	ND	124	88	70 - 130
Bromoform	70.1	ND	63.5	91	70 - 130
Isopropylbenzene	70.1	ND	61.0	87	70 - 130
1,1,2,2-Tetrachloroethane	70.1	ND	63.8	91	70 - 130
1,2,3-Trichloropropane	70.1	ND	63.2	90	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
n-Propyl Benzene	70.1	ND	58.9	84	70 - 130
Bromobenzene	70.1	ND	59.4	85	70 - 130
1,3,5-Trimethylbenzene	70.1	ND	59.7	85	70 - 130
2-Chlorotoluene	70.1	ND	59.1	84	70 - 130
4-Chlorotoluene	70.1	ND	60.2	86	70 - 130
tert-Butylbenzene	70.1	ND	59.0	84	70 - 130
1,2,4-Trimethylbenzene	70.1	ND	60.7	87	70 - 130
sec-Butylbenzene	70.1	ND	59.7	85	70 - 130
p-Isopropyltoluene	70.1	ND	60.2	86	70 - 130
1,3-Dichlorobenzene	70.1	ND	59.0	84	70 - 130
1,4-Dichlorobenzene	70.1	ND	60.9	87	70 - 130
n-Butyl Benzene	70.1	ND	58.4	83	70 - 130
1,2-Dichlorobenzene	70.1	ND	62.0	88	70 - 130
1,2-Dibromo-3-chloropropane	70.1	ND	63.5	90	40 - 160
1,2,4-Trichlorobenzene	70.1	ND	64.8	92	70 - 130
Hexachlorobutadiene	70.1	ND	58.6	83	70 - 130
Naphthalene	70.1	ND	66.3	94	40 - 160
1,2,3-Trichlorobenzene	70.1	ND	64.5	92	70 - 130
Methyl tert-Butyl Ether	140	ND	108	77	70 - 130

Data File : D:\D\DATA15\DEC15\D1223\D13568.D  
 Acq On : 23 Dec 2015 15:09  
 Sample : B5L2319-MS1  
 Misc : SOIL

Vial: 5  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 23 15:31 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
 Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Mon Dec 07 10:21:05 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	651593	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1136307	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.22	117	940546	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	418173	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.46	65	240458	53.98	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.96%
41) Toluene-d8	9.06	98	1248475	54.11	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.22%
47) Bromofluorobenzene	12.83	95	381131	56.59	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	113.18%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.96	56	23987	179.06	ug/l	94
3) Acrylonitrile	4.39	53	260174	206.40	ug/l	93
4) Acetone	3.33	43	65459	40.22	ug/l	90
5) Dichlorodifluoromethane	1.34	85	193138	29.84	ug/l	98
6) Chloromethane	1.50	50	523278	35.64	ug/l	100
7) Vinyl Chloride	1.56	62	578605	37.65	ug/l	98
8) Bromomethane	1.84	94	383971	39.81	ug/l	98
9) Chloroethane	1.94	64	535394	39.58	ug/l	98
10) Trichlorofluoromethane	2.05	101	493591	42.23	ug/l	100
11) Freon-113	2.61	101	380501	37.29	ug/l	98
12) 1,1-Dichloroethene	2.55	61	608504	43.20	ug/l	88
13) Carbon disulfide	2.56	76	1076405	48.63	ug/l	97
14) Methyl Acetate	3.50	43	156363	46.59	ug/l	96
15) Methylene Chloride	3.23	49	566811	49.05	ug/l	96
16) trans-1,2-Dichloroethene	3.41	61	535155	43.65	ug/l	90
17) 1,1-Dichloroethane	4.27	63	721233	46.41	ug/l	98
18) Vinyl acetate	4.73	43	474929	43.67	ug/l	97
19) 2,2-Dichloropropane	5.19	77	467396	46.41	ug/l	91
20) 2-Butanone	5.97	43	87308	38.67	ug/l	85
21) cis-1,2-Dichloroethene	5.06	61	512527	45.08	ug/l	87
22) Chloroform	5.49	83	516344	47.86	ug/l	98
23) Bromochloromethane	5.33	130	187136	47.90	ug/l	99
24) Cyclohexane	5.28	56	743793	39.38	ug/l	88
25) 1,1,1-Trichloroethane	5.71	97	380740	45.96	ug/l	90
26) T-butyl alcohol	3.86	59	152071	462.87	ug/l	89
29) 1,1-Dichloropropene	5.89	110	176186	45.26	ug/l	94
30) Carbon Tetrachloride	5.60	117	327684	46.65	ug/l	100
31) 1,2-Dichloroethane	6.55	62	270159	49.73	ug/l	90
32) Benzene	6.25	78	1368234	46.05	ug/l	94
33) Trichloroethene	7.08	95	311060	46.19	ug/l	99
34) Methylcyclohexane	7.02	83	573759	39.69	ug/l	89
35) 1,2-Dichloropropane	7.80	63	376763	47.15	ug/l	100
37) Bromodichloromethane	7.93	83	319305	47.06	ug/l	96
38) Dibromomethane	7.66	174	139694	50.98	ug/l	97
39) 2-Chloroethylvinylether	8.80	63	140664	46.72	ug/l	97
40) cis-1,3-dichloropropene	8.82	75	489168	49.25	ug/l	96
42) Toluene	9.13	91	1369030	48.31	ug/l	96
43) trans-1,3-Dichloropropene	9.76	75	360154	49.99	ug/l	96
44) 1,1,2-Trichloroethane	9.97	97	192841	48.39	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	181807	47.30	ug/l	96
46) 1,2-Dibromoethane	10.49	107	196018	50.91	ug/l	90
49) 2-Hexanone	10.93	43	131965	41.26	ug/l	97
50) 1,3-dichloropropane	10.34	76	375507	46.60	ug/l	93
51) Tetrachloroethene	9.64	166	349302	45.55	ug/l	97

(#) = qualifier out of range (m) = manual integration  
 D13568.D VD8S1201.M Mon Dec 28 11:50:00 2015

Data File : D:\D\DATA15\DEC15\D1223\D13568.D  
 Acq On : 23 Dec 2015 15:09  
 Sample : B5L2319-MS1  
 Misc : SOIL

Vial: 5  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 23 15:31 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
 Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Mon Dec 07 10:21:05 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.20	129	224025	47.45	ug/l	95
53) Ethylbenzene	11.31	91	1469021	45.00	ug/l	97
54) Chlorobenzene	11.24	112	852327	44.36	ug/l	97
55) 1,1,1,2-Tetrachloroethane	11.35	131	251108	45.77	ug/l	97
56) m,p-Xylene	11.52	91	2099414	89.21	ug/l	98
57) o-Xylene	12.07	91	1987298	87.28	ug/l	98
58) Styrene	12.15	104	1735326	88.18	ug/l	98
59) Bromoform	12.16	173	102890	45.31	ug/l	88
61) Isopropylbenzene	12.49	105	1541713	43.50	ug/l	99
62) 1,1,2,2-Tetrachloroethane	13.14	83	216458	45.52	ug/l	97
63) 1,2,3-Trichloropropane	13.28	75	159391	45.07	ug/l	98
64) n-Propyl benzene	13.02	91	1776301	42.01	ug/l	95
65) Bromobenzene	12.94	77	470326	42.32	ug/l	96
66) 1,3,5-Trimethylbenzene	13.28	105	1107984	42.59	ug/l	100
67) 2-Chlorotoluene	13.19	91	894307	42.12	ug/l	94
68) 4-Chlorotoluene	13.40	91	926211	42.95	ug/l	90
69) tert-Butylbenzene	13.66	119	1054946	42.10	ug/l	96
70) 1,2,4-Trimethylbenzene	13.75	105	1107853	43.28	ug/l	98
71) sec-Butylbenzene	13.88	105	1666033	42.55	ug/l	100
72) p-Isopropyltoluene	14.07	119	1368871	42.89	ug/l	99
73) 1,3-Dichlorobenzene	14.12	146	599246	42.07	ug/l	100
74) 1,4-Dichlorobenzene	14.23	146	600271	43.41	ug/l	99
75) n-Butylbenzene	14.58	91	1253215	41.67	ug/l	93
76) 1,2-Dichlorobenzene	14.73	146	522258	44.19	ug/l	99
77) 1,2-Dibromo-3-Chloropropan	15.71	157	30782	45.24	ug/l #	83
78) 1,2,4-Trichlorobenzene	16.51	180	320112	46.18	ug/l	94
79) Hexachlorobutadiene	16.48	225	170675	41.75	ug/l	99
80) Naphthalene	16.90	128	579056	47.25	ug/l	100
81) 1,2,3-Trichlorobenzene	17.11	180	260187	46.02	ug/l	97
82) Methyl t-butyl ether	3.60	73	1052440	77.34	ug/l	99





## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Acrolein	351	263	75	5	30	40 - 160
Acrylonitrile	351	303	87	5	30	70 - 130
Acetone	70.1	55.9	80	0.9	30	40 - 160
Dichlorodifluoromethane	70.1	34.5	49	19	30	40 - 160
Chloromethane	70.1	46.5	66	7	30	40 - 160
Vinyl chloride	70.1	52.5	75	0.7	30	70 - 130
Bromomethane	70.1	55.0	78	2	30	40 - 160
Chloroethane	70.1	52.6	75	5	30	40 - 160
Trichlorofluoromethane	70.1	53.2	76	11	30	40 - 160
Freon 113	70.1	49.0	70	6	30	70 - 130
1,1-Dichloroethene	70.1	58.8	84	3	30	70 - 130
Carbon disulfide	70.1	63.2	90	8	30	70 - 130
Methyl Acetate	70.1	72.1	103	10	30	70 - 130
Methylene Chloride	70.1	67.4	96	2	30	70 - 130
trans-1,2-Dichloroethene	70.1	59.3	85	3	30	70 - 130
1,1-Dichloroethane	70.1	62.2	89	5	30	70 - 130
2,2-Dichloropropane	70.1	61.7	88	5	30	70 - 130
2-Butanone	70.1	60.1	86	10	30	40 - 160
cis-1,2-Dichloroethene	70.1	62.1	89	2	30	70 - 130
Chloroform	70.1	63.4	90	6	30	70 - 130
Bromochloromethane	70.1	65.5	93	3	30	70 - 130
Cyclohexane	70.1	52.1	74	6	30	70 - 130
1,1,1-Trichloroethane	70.1	62.1	89	4	30	70 - 130
t-Butyl alcohol	701	660	94	2	30	40 - 160
1,1-Dichloropropene	70.1	59.9	85	6	30	70 - 130
Carbon Tetrachloride	70.1	60.3	86	8	30	70 - 130
1,2-Dichloroethane	70.1	65.4	93	6	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Benzene	70.1	60.3	86	7	30	70 - 130
Trichloroethene	70.1	59.8	85	8	30	70 - 130
Methylcyclohexane	70.1	51.6	74	8	30	70 - 130
1,2-Dichloropropane	70.1	62.3	89	6	30	70 - 130
Bromodichloromethane	70.1	62.2	89	6	30	70 - 130
Dibromomethane	70.1	69.4	99	3	30	70 - 130
2-Chloroethyl vinyl ether	70.1	64.5	92	2	30	40 - 160
cis-1,3-Dichloropropene	70.1	63.7	91	8	30	70 - 130
Toluene	70.1	59.7	85	13	30	70 - 130
trans-1,3-Dichloropropene	70.1	65.0	93	8	30	70 - 130
1,1,2-Trichloroethane	70.1	63.5	91	7	30	70 - 130
4-Methyl-2-pentanone	70.1	67.7	97	2	30	40 - 160
1,2-Dibromoethane	70.1	65.8	94	8	30	70 - 130
2-Hexanone	70.1	58.6	84	1	30	40 - 160
1,3-Dichloropropane	70.1	63.8	91	2	30	70 - 130
Tetrachloroethene	70.1	57.6	82	10	30	70 - 130
Dibromochloromethane	70.1	64.0	91	4	30	70 - 130
Ethylbenzene	70.1	57.5	82	9	30	70 - 130
Chlorobenzene	70.1	58.9	84	6	30	70 - 130
1,1,1,2-Tetrachloroethane	70.1	60.9	87	5	30	70 - 130
m,p-Xylenes	140	113	81	10	30	70 - 130
o-Xylene	140	113	81	8	30	70 - 130
Styrene	140	114	81	8	30	70 - 130
Bromoform	70.1	65.8	94	3	30	70 - 130
Isopropylbenzene	70.1	57.8	82	5	30	70 - 130
1,1,2,2-Tetrachloroethane	70.1	65.5	93	2	30	70 - 130
1,2,3-Trichloropropane	70.1	65.8	94	4	30	70 - 130



## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

### Matrix Spike Dup

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
n-Propyl Benzene	70.1	56.4	80	4	30	70 - 130
Bromobenzene	70.1	59.2	84	0.3	30	70 - 130
1,3,5-Trimethylbenzene	70.1	57.8	82	3	30	70 - 130
2-Chlorotoluene	70.1	57.0	81	4	30	70 - 130
4-Chlorotoluene	70.1	57.2	82	5	30	70 - 130
tert-Butylbenzene	70.1	56.5	81	4	30	70 - 130
1,2,4-Trimethylbenzene	70.1	58.1	83	4	30	70 - 130
sec-Butylbenzene	70.1	56.9	81	5	30	70 - 130
p-Isopropyltoluene	70.1	56.4	80	6	30	70 - 130
1,3-Dichlorobenzene	70.1	58.0	83	2	30	70 - 130
1,4-Dichlorobenzene	70.1	57.9	83	5	30	70 - 130
n-Butyl Benzene	70.1	54.7	78	7	30	70 - 130
1,2-Dichlorobenzene	70.1	59.5	85	4	30	70 - 130
1,2-Dibromo-3-chloropropane	70.1	64.5	92	2	30	40 - 160
1,2,4-Trichlorobenzene	70.1	59.9	85	8	30	70 - 130
Hexachlorobutadiene	70.1	53.1	76	10	30	70 - 130
Naphthalene	70.1	63.0	90	5	30	40 - 160
1,2,3-Trichlorobenzene	70.1	57.3	82	12	30	70 - 130
Methyl tert-Butyl Ether	140	113	80	4	30	70 - 130



Data File : D:\D\DATA15\DEC15\D1223\D13569.D  
 Acq On : 23 Dec 2015 15:38  
 Sample : B5L2319-MSD1  
 Misc : SOIL

Vial: 6  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 24 9:15 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Mon Dec 07 10:21:05 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	615017	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.18	114	1110593	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.22	117	906740	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	385932	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.46	65	242526	55.71	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	111.42%
41) Toluene-d8	9.06	98	1169722	51.87	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.74%
47) Bromofluorobenzene	12.83	95	361276	54.89	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.78%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.97	56	23718	187.58	ug/l	82
3) Acrylonitrile	4.40	53	257295	216.26	ug/l	97
4) Acetone	3.33	43	61298	39.86	ug/l	98
5) Dichlorodifluoromethane	1.35	85	150222	24.59	ug/l	97
6) Chloromethane	1.50	50	459824	33.18	ug/l	99
7) Vinyl Chloride	1.57	62	542457m	37.40	ug/l	
8) Bromomethane	1.85	94	356851	39.20	ug/l	100
9) Chloroethane	1.95	64	478579	37.49	ug/l	93
10) Trichlorofluoromethane	2.06	101	418746	37.96	ug/l	91
11) Freon-113	2.61	101	336609	34.95	ug/l	99
12) 1,1-Dichloroethene	2.56	61	556904	41.89	ug/l	89
13) Carbon disulfide	2.56	76	942114	45.09	ug/l	94
14) Methyl Acetate	3.51	43	162745	51.38	ug/l	98
15) Methylene Chloride	3.23	49	525584	48.04	ug/l	91
16) trans-1,2-Dichloroethene	3.42	61	488901	42.25	ug/l	93
17) 1,1-Dichloroethane	4.28	63	650697	44.36	ug/l	99
18) Vinyl acetate	4.73	43	416537	40.58	ug/l	99
19) 2,2-Dichloropropane	5.20	77	417876	43.96	ug/l	94
20) 2-Butanone	5.96	43	91290	42.84	ug/l	95
21) cis-1,2-Dichloroethene	5.07	61	475139	44.28	ug/l	92
22) Chloroform	5.49	83	460185	45.19	ug/l	99
23) Bromochloromethane	5.34	130	172237	46.71	ug/l	98
24) Cyclohexane	5.28	56	662344	37.15	ug/l	88
25) 1,1,1-Trichloroethane	5.72	97	346228	44.28	ug/l	91
26) T-butyl alcohol	3.86	59	145837	470.29	ug/l	99
29) 1,1-Dichloropropene	5.90	110	162461	42.70	ug/l	97
30) Carbon Tetrachloride	5.60	117	295103	42.98	ug/l	94
31) 1,2-Dichloroethane	6.56	62	247731	46.65	ug/l	89
32) Benzene	6.24	78	1247636	42.96	ug/l	97
33) Trichloroethene	7.07	95	280687	42.65	ug/l	94
34) Methylcyclohexane	7.02	83	519467	36.76	ug/l	91
35) 1,2-Dichloropropane	7.80	63	347013	44.43	ug/l	96
37) Bromodichloromethane	7.94	83	294166	44.36	ug/l	96
38) Dibromomethane	7.66	174	132440	49.45	ug/l	92
39) 2-Chloroethylvinylether	8.80	63	135311	45.98	ug/l	99
40) cis-1,3-dichloropropene	8.82	75	441164	45.44	ug/l	96
42) Toluene	9.13	91	1178898	42.56	ug/l	95
43) trans-1,3-Dichloropropene	9.75	75	326306	46.34	ug/l	91
44) 1,1,2-Trichloroethane	9.97	97	176317	45.26	ug/l	99
45) 4-Methyl-2-pentanone	9.73	43	181421	48.29	ug/l	90
46) 1,2-Dibromoethane	10.49	107	176467	46.90	ug/l	95
49) 2-Hexanone	10.92	43	128918	41.81	ug/l	90
50) 1,3-dichloropropane	10.34	76	353605	45.52	ug/l	97
51) Tetrachloroethene	9.64	166	303864	41.10	ug/l	91

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1223\D13569.D  
 Acq On : 23 Dec 2015 15:38  
 Sample : B5L2319-MSD1  
 Misc : SOIL

Vial: 6  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 24 9:15 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Mon Dec 07 10:21:05 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

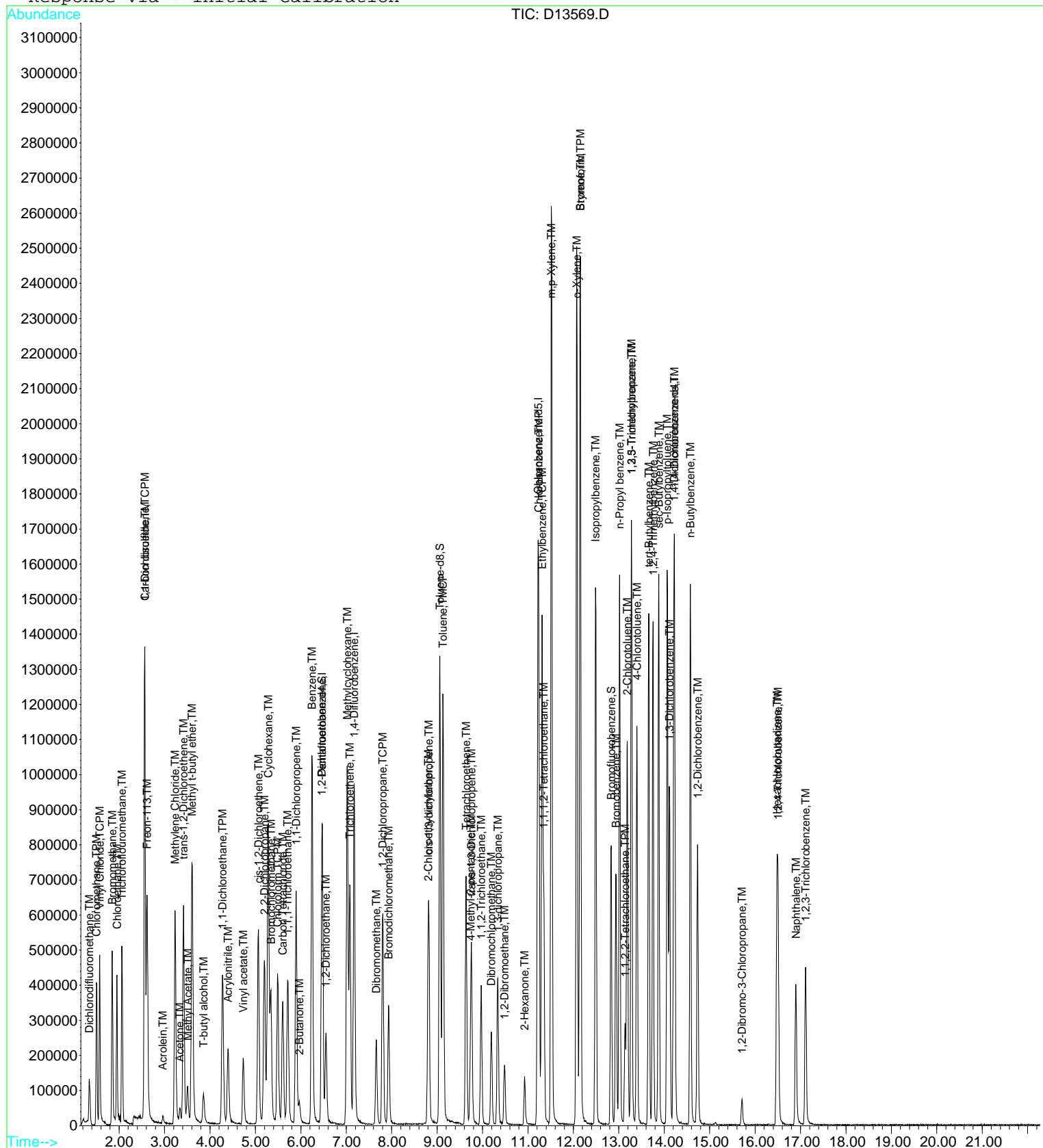
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.19	129	207692	45.63	ug/l	97
53) Ethylbenzene	11.31	91	1290618	41.01	ug/l	100
54) Chlorobenzene	11.24	112	777386	41.97	ug/l	98
55) 1,1,1,2-Tetrachloroethane	11.35	131	229828	43.45	ug/l	90
56) m,p-Xylene	11.51	91	1833386	80.81	ug/l	99
57) o-Xylene	12.07	91	1773989	80.82	ug/l	98
58) Styrene	12.15	104	1545729	81.47	ug/l	97
59) Bromoform	12.15	173	102705	46.91	ug/l	86
61) Isopropylbenzene	12.49	105	1348085	41.21	ug/l	100
62) 1,1,2,2-Tetrachloroethane	13.14	83	204808	46.67	ug/l	100
63) 1,2,3-Trichloropropane	13.28	75	153108	46.91	ug/l	97
64) n-Propyl benzene	13.02	91	1568900	40.21	ug/l	94
65) Bromobenzene	12.93	77	432793	42.19	ug/l	99
66) 1,3,5-Trimethylbenzene	13.28	105	988880	41.19	ug/l	99
67) 2-Chlorotoluene	13.18	91	796045	40.62	ug/l	95
68) 4-Chlorotoluene	13.40	91	811133	40.76	ug/l	91
69) tert-Butylbenzene	13.66	119	931099	40.26	ug/l	98
70) 1,2,4-Trimethylbenzene	13.75	105	979527	41.46	ug/l	99
71) sec-Butylbenzene	13.88	105	1466483	40.58	ug/l	99
72) p-Isopropyltoluene	14.07	119	1184786	40.22	ug/l	98
73) 1,3-Dichlorobenzene	14.11	146	543363	41.34	ug/l	98
74) 1,4-Dichlorobenzene	14.23	146	526518	41.26	ug/l	99
75) n-Butylbenzene	14.58	91	1083057	39.02	ug/l	94
76) 1,2-Dichlorobenzene	14.73	146	462630	42.41	ug/l	100
77) 1,2-Dibromo-3-Chloropropan	15.71	157	28891	46.01	ug/l	99
78) 1,2,4-Trichlorobenzene	16.51	180	273249	42.71	ug/l	96
79) Hexachlorobutadiene	16.48	225	142855	37.87	ug/l	94
80) Naphthalene	16.90	128	508253	44.94	ug/l	98
81) 1,2,3-Trichlorobenzene	17.11	180	213215	40.86	ug/l	98
82) Methyl t-butyl ether	3.61	73	1009066	80.34	ug/l	98

Data File : D:\D\DATA15\DEC15\D1223\D13569.D  
Acq On : 23 Dec 2015 15:38  
Sample : B5L2319-MSD1  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 24 9:15 2015

Vial: 6  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration





## LCS / LCS DUPLICATE RECOVERY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	204	82	40 - 160
Acrylonitrile	250	233	93	70 - 130
Acetone	50.0	44.6	89	40 - 160
Dichlorodifluoromethane	50.0	34.6	69	40 - 160
Chloromethane	50.0	40.6	81	40 - 160
Vinyl chloride	50.0	42.1	84	70 - 130
Bromomethane	50.0	45.8	92	40 - 160
Chloroethane	50.0	44.3	89	40 - 160
Trichlorofluoromethane	50.0	45.3	91	40 - 160
Freon 113	50.0	44.1	88	70 - 130
1,1-Dichloroethene	50.0	51.5	103	70 - 130
Carbon disulfide	50.0	58.0	116	70 - 130
Methyl Acetate	50.0	54.3	109	70 - 130
Methylene Chloride	50.0	63.6	127	70 - 130
trans-1,2-Dichloroethene	50.0	51.1	102	70 - 130
1,1-Dichloroethane	50.0	53.4	107	70 - 130
2,2-Dichloropropane	50.0	52.3	105	70 - 130
2-Butanone	50.0	45.5	91	40 - 160
cis-1,2-Dichloroethene	50.0	52.7	105	70 - 130
Chloroform	50.0	53.6	107	70 - 130
Bromochloromethane	50.0	53.4	107	70 - 130
Cyclohexane	50.0	47.6	95	70 - 130
1,1,1-Trichloroethane	50.0	53.6	107	70 - 130
t-Butyl alcohol	500	541	108	40 - 160
1,1-Dichloropropene	50.0	53.2	106	70 - 130
Carbon Tetrachloride	50.0	55.4	111	70 - 130
1,2-Dichloroethane	50.0	54.5	109	70 - 130
Benzene	50.0	52.1	104	70 - 130



## LCS / LCS DUPLICATE RECOVERY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	52.6	105	70 - 130
Methylcyclohexane	50.0	47.4	95	70 - 130
1,2-Dichloropropane	50.0	52.0	104	70 - 130
Bromodichloromethane	50.0	53.2	106	70 - 130
Dibromomethane	50.0	53.8	108	70 - 130
2-Chloroethyl vinyl ether	50.0	53.0	106	40 - 160
cis-1,3-Dichloropropene	50.0	52.0	104	70 - 130
Toluene	50.0	52.0	104	70 - 130
trans-1,3-Dichloropropene	50.0	51.9	104	70 - 130
1,1,2-Trichloroethane	50.0	52.3	105	70 - 130
4-Methyl-2-pentanone	50.0	51.8	104	40 - 160
1,2-Dibromoethane	50.0	54.0	108	70 - 130
2-Hexanone	50.0	46.3	93	40 - 160
1,3-Dichloropropane	50.0	51.1	102	70 - 130
Tetrachloroethene	50.0	50.2	100	70 - 130
Dibromochloromethane	50.0	53.6	107	70 - 130
Ethylbenzene	50.0	51.4	103	70 - 130
Chlorobenzene	50.0	51.2	102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.1	100	70 - 130
m,p-Xylenes	100	102	102	70 - 130
o-Xylene	100	98.7	99	70 - 130
Styrene	100	100	100	70 - 130
Bromoform	50.0	52.6	105	70 - 130
Isopropylbenzene	50.0	50.7	101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9	102	70 - 130
1,2,3-Trichloropropane	50.0	51.2	102	70 - 130
n-Propyl Benzene	50.0	50.2	100	70 - 130
Bromobenzene	50.0	49.3	99	70 - 130



## LCS / LCS DUPLICATE RECOVERY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Project:** 255 East 138th Street, Bronx, NY  
**Work Order:** 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.0	49.8	100	70 - 130
2-Chlorotoluene	50.0	49.1	98	70 - 130
4-Chlorotoluene	50.0	49.4	99	70 - 130
tert-Butylbenzene	50.0	49.9	100	70 - 130
1,2,4-Trimethylbenzene	50.0	49.8	100	70 - 130
sec-Butylbenzene	50.0	51.4	103	70 - 130
p-Isopropyltoluene	50.0	51.0	102	70 - 130
1,3-Dichlorobenzene	50.0	49.0	98	70 - 130
1,4-Dichlorobenzene	50.0	49.6	99	70 - 130
n-Butyl Benzene	50.0	50.2	100	70 - 130
1,2-Dichlorobenzene	50.0	49.4	99	70 - 130
1,2-Dibromo-3-chloropropane	50.0	50.2	100	40 - 160
1,2,4-Trichlorobenzene	50.0	52.5	105	70 - 130
Hexachlorobutadiene	50.0	53.4	107	70 - 130
Naphthalene	50.0	51.9	104	40 - 160
1,2,3-Trichlorobenzene	50.0	51.3	103	70 - 130
Methyl tert-Butyl Ether	100	91.1	91	70 - 130

\* Values outside of QC limits

Data File : D:\D\DATA15\DEC15\D1223\D13567.D  
 Acq On : 23 Dec 2015 14:37  
 Sample : B5L2319-BS1  
 Misc : SOIL

Vial: 4  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 23 15:00 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Mon Dec 07 10:21:05 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	607398	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1066750	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.22	117	857646	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	378590	50.00	ug/l	0.00

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.44	65	223637	53.48	ug/l	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.96%
41) Toluene-d8	9.06	98	1123395	51.86	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.72%
47) Bromofluorobenzene	12.83	95	336672	53.25	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.96	56	25466	203.93	ug/l	82
3) Acrylonitrile	4.38	53	273206	232.51	ug/l	96
4) Acetone	3.33	43	66909	44.57	ug/l	92
5) Dichlorodifluoromethane	1.34	85	208970	34.63	ug/l	97
6) Chloromethane	1.50	50	556028	40.62	ug/l	100
7) Vinyl Chloride	1.56	62	602661	42.07	ug/l	100
8) Bromomethane	1.84	94	412004	45.83	ug/l	98
9) Chloroethane	1.95	64	558460	44.29	ug/l	99
10) Trichlorofluoromethane	2.05	101	493465	45.30	ug/l	92
11) Freon-113	2.61	101	419678	44.13	ug/l	95
12) 1,1-Dichloroethene	2.55	61	675816	51.47	ug/l	90
13) Carbon disulfide	2.56	76	1196202	57.97	ug/l	97
14) Methyl Acetate	3.50	43	169919	54.32	ug/l	96
15) Methylene Chloride	3.22	49	661879	63.64	ug/l	90
16) trans-1,2-Dichloroethene	3.41	61	583996	51.10	ug/l	# 86
17) 1,1-Dichloroethane	4.27	63	773714	53.41	ug/l	99
18) Vinyl acetate	4.72	43	510944	50.40	ug/l	99
19) 2,2-Dichloropropane	5.19	77	490968	52.30	ug/l	94
20) 2-Butanone	5.96	43	95709	45.48	ug/l	92
21) cis-1,2-Dichloroethene	5.05	61	558151	52.66	ug/l	84
22) Chloroform	5.48	83	538904	53.58	ug/l	98
23) Bromochloromethane	5.33	130	194492	53.40	ug/l	99
24) Cyclohexane	5.27	56	838047	47.59	ug/l	86
25) 1,1,1-Trichloroethane	5.70	97	414207	53.63	ug/l	93
26) T-butyl alcohol	3.84	59	165632	540.83	ug/l	93
29) 1,1-Dichloropropene	5.89	110	194302	53.17	ug/l	99
30) Carbon Tetrachloride	5.59	117	364998	55.35	ug/l	93
31) 1,2-Dichloroethane	6.55	62	278073	54.52	ug/l	93
32) Benzene	6.24	78	1454465	52.14	ug/l	95
33) Trichloroethene	7.07	95	332652	52.62	ug/l	94
34) Methylcyclohexane	7.02	83	642764	47.36	ug/l	89
35) 1,2-Dichloropropane	7.80	63	389685	51.95	ug/l	96
37) Bromodichloromethane	7.92	83	338875	53.21	ug/l	97
38) Dibromomethane	7.65	174	138491	53.84	ug/l	94
39) 2-Chloroethylvinylether	8.79	63	149877	53.02	ug/l	92
40) cis-1,3-dichloropropene	8.81	75	485011	52.01	ug/l	96
42) Toluene	9.13	91	1382431	51.96	ug/l	95
43) trans-1,3-Dichloropropene	9.75	75	351064	51.90	ug/l	97
44) 1,1,2-Trichloroethane	9.97	97	195817	52.34	ug/l	91
45) 4-Methyl-2-pentanone	9.73	43	186819	51.77	ug/l	95
46) 1,2-Dibromoethane	10.48	107	195230	54.02	ug/l	89
49) 2-Hexanone	10.92	43	135030	46.30	ug/l	92
50) 1,3-dichloropropane	10.33	76	375754	51.14	ug/l	97
51) Tetrachloroethene	9.63	166	350870	50.18	ug/l	93

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1223\D13567.D  
 Acq On : 23 Dec 2015 14:37  
 Sample : B5L2319-BS1  
 Misc : SOIL

Vial: 4  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 23 15:00 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
 Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Mon Dec 07 10:21:05 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.19	129	230587	53.56	ug/l	96
53) Ethylbenzene	11.31	91	1528701	51.36	ug/l	97
54) Chlorobenzene	11.24	112	897695	51.24	ug/l	97
55) 1,1,1,2-Tetrachloroethane	11.35	131	250515	50.08	ug/l	98
56) m,p-Xylene	11.52	91	2197686	102.41	ug/l	98
57) o-Xylene	12.08	91	2049060	98.69	ug/l	100
58) Styrene	12.15	104	1796310	100.10	ug/l	99
59) Bromoform	12.15	173	108880	52.58	ug/l	81
61) Isopropylbenzene	12.49	105	1627576	50.72	ug/l	100
62) 1,1,2,2-Tetrachloroethane	13.14	83	218953	50.86	ug/l	93
63) 1,2,3-Trichloropropane	13.28	75	163915	51.20	ug/l	96
64) n-Propyl benzene	13.02	91	1921606	50.20	ug/l	94
65) Bromobenzene	12.94	77	495681	49.26	ug/l	95
66) 1,3,5-Trimethylbenzene	13.28	105	1173039	49.80	ug/l	97
67) 2-Chlorotoluene	13.19	91	944550	49.13	ug/l	92
68) 4-Chlorotoluene	13.40	91	964584	49.41	ug/l	93
69) tert-Butylbenzene	13.66	119	1132513	49.92	ug/l	96
70) 1,2,4-Trimethylbenzene	13.75	105	1153846	49.79	ug/l	98
71) sec-Butylbenzene	13.88	105	1822182	51.40	ug/l	100
72) p-Isopropyltoluene	14.07	119	1473595	51.00	ug/l	99
73) 1,3-Dichlorobenzene	14.11	146	632512	49.05	ug/l	99
74) 1,4-Dichlorobenzene	14.23	146	620626	49.58	ug/l	99
75) n-Butylbenzene	14.58	91	1368367	50.25	ug/l	96
76) 1,2-Dichlorobenzene	14.73	146	528624	49.40	ug/l	99
77) 1,2-Dibromo-3-Chloropropan	15.72	157	30895	50.20	ug/l #	85
78) 1,2,4-Trichlorobenzene	16.51	180	329628	52.52	ug/l	98
79) Hexachlorobutadiene	16.48	225	197469	53.36	ug/l	95
80) Naphthalene	16.90	128	575493	51.87	ug/l	98
81) 1,2,3-Trichlorobenzene	17.12	180	262831	51.34	ug/l	99
82) Methyl t-butyl ether	3.59	73	1122026	91.07	ug/l	95

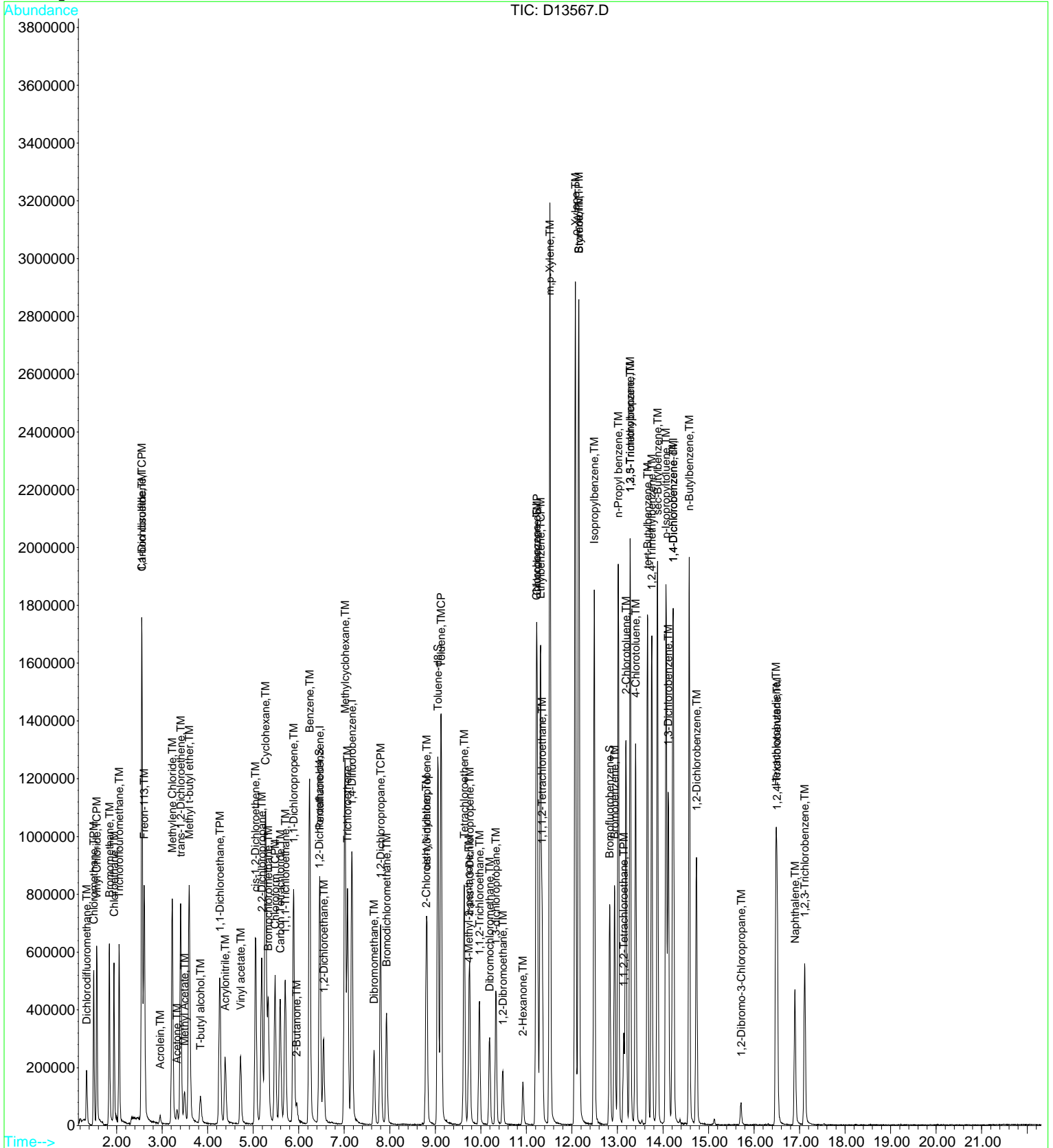


Data File : D:\D\DATA15\DEC15\D1223\D13567.D  
Acq On : 23 Dec 2015 14:37  
Sample : B5L2319-BS1  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 23 15:00 2015

Vial: 4  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration





## METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
Work Order: 1502323  
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2319-BLK1	Batch:	B5L2319
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Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5L2319-BS1	D13567.D	12/23/2015 14:37
Matrix Spike	B5L2319-MS1	D13568.D	12/23/2015 15:09
Matrix Spike Dup	B5L2319-MSD1	D13569.D	12/23/2015 15:38
EP-18	1502323-01RE1	D13572.D	12/23/2015 17:11
EP-18	1502323-01	D13585.D	12/23/2015 23:47



## INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	D13255.D	Injection Date:	12/01/15
Instrument ID:	GC/MS D	Injection Time:	14:25
Sequence:	S5L0109	Lab Sample ID:	S5L0109-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	21.2	PASS
75	30 - 60% of 95	46.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.81	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	81.1	PASS
175	5 - 9% of 174	6.73	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.66	PASS

### Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
2 ppb 8260	S5L0109-CAL1	D13256.D	12/01/2015	14:40:00
10 ppb 8260	S5L0109-CAL2	D13257.D	12/01/2015	15:11:00
20 ppb 8260	S5L0109-CAL3	D13258.D	12/01/2015	15:47:00
50 ppb 8260	S5L0109-CAL4	D13259.D	12/01/2015	16:17:00
100 ppb 8260	S5L0109-CAL5	D13260.D	12/01/2015	17:09:00
200 ppb 8260	S5L0109-CAL6	D13261.D	12/01/2015	17:39:00



## INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	D13563.D	Injection Date:	12/23/15
Instrument ID:	GC/MS D	Injection Time:	12:20
Sequence:	S5L2311	Lab Sample ID:	S5L2311-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	21.3	PASS
75	30 - 60% of 95	45.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.37	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	84.7	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.49	PASS

### Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2311-CCV1	D13564.D	12/23/2015	12:35:00
Blank	B5L2319-BLK1	D13566.D	12/23/2015	13:57:00
LCS	B5L2319-BS1	D13567.D	12/23/2015	14:37:00
Matrix Spike	B5L2319-MS1	D13568.D	12/23/2015	15:09:00
Matrix Spike Dup	B5L2319-MSD1	D13569.D	12/23/2015	15:38:00
INTSUP	1502323-01RE1	D13572.D	12/23/2015	17:11:00
EP-18	1502323-01	D13585.D	12/23/2015	23:47:00



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY  
**Sequence:** S5L2311

**Instrument:** GC/MS D  
**Calibration:** 15L1401

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S5L2311-CCV1 )</b>			<i>Lab File ID: D13564.D</i>		<i>Analyzed: 12/23/15 12:35</i>				
Pentafluorobenzene	733275	6.47	721379	6.46	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1316145	7.17	1264794	7.17	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1058444	11.21	980805	11.21	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	459230	14.2	427639	14.21	107	50 - 200	-0.0100	+/-0.50	
<b>Blank (B5L2319-BLK1 )</b>			<i>Lab File ID: D13566.D</i>		<i>Analyzed: 12/23/15 13:57</i>				
Pentafluorobenzene	706240	6.47	733275	6.47	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1268218	7.17	1316145	7.17	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	976039	11.21	1058444	11.21	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	400217	14.21	459230	14.2	87	50 - 200	0.0100	+/-0.50	
<b>LCS (B5L2319-BS1 )</b>			<i>Lab File ID: D13567.D</i>		<i>Analyzed: 12/23/15 14:37</i>				
Pentafluorobenzene	607398	6.47	733275	6.47	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1066750	7.17	1316145	7.17	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	857646	11.22	1058444	11.21	81	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	378590	14.22	459230	14.2	82	50 - 200	0.0200	+/-0.50	
<b>Matrix Spike (B5L2319-MS1 )</b>			<i>Lab File ID: D13568.D</i>		<i>Analyzed: 12/23/15 15:09</i>				
Pentafluorobenzene	651593	6.47	733275	6.47	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1136307	7.17	1316145	7.17	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	940546	11.22	1058444	11.21	89	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	418173	14.21	459230	14.2	91	50 - 200	0.0100	+/-0.50	
<b>Matrix Spike Dup (B5L2319-MSD1 )</b>			<i>Lab File ID: D13569.D</i>		<i>Analyzed: 12/23/15 15:38</i>				
Pentafluorobenzene	615017	6.47	733275	6.47	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1110593	7.18	1316145	7.17	84	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	906740	11.22	1058444	11.21	86	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	385932	14.21	459230	14.2	84	50 - 200	0.0100	+/-0.50	



## INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY  
**Sequence:** S5L2311

**Instrument:** GC/MS D  
**Calibration:** 15L1401

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>EP-18 (1502323-01RE1)</b>			<i>Lab File ID: D13572.D</i>		<i>Analyzed: 12/23/15 17:11</i>				
Pentafluorobenzene	419703	6.47	733275	6.47	57	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	785502	7.18	1316145	7.17	60	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	513029	11.22	1058444	11.21	48	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	154489	14.21	459230	14.2	34	50 - 200	0.0100	+/-0.50	*
<b>EP-18 (1502323-01)</b>			<i>Lab File ID: D13585.D</i>		<i>Analyzed: 12/23/15 23:47</i>				
Pentafluorobenzene	470992	6.49	733275	6.47	64	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	872380	7.19	1316145	7.17	66	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	612565	11.23	1058444	11.21	58	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	191112	14.23	459230	14.2	42	50 - 200	0.0300	+/-0.50	*

\* Values outside of QC limits

# VOLATILES CALIBRATION DATA



## INITIAL CALIBRATION DATA

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1401	Instrument: GC/MS D
	Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	10	8.821141E-03	50	0.0120828	100	1.015763E-02	250	1.001526E-02	500	1.090093E-02	1000	9.698984E-03
Acrylonitrile	10	0.1030059	50	0.1040353	100	9.534724E-02	250	9.243501E-02	500	9.794981E-02	1000	8.758337E-02
Acetone	2	0.2881964	10	0.163567	20	0.1362807	50	0.1192144	100	0.1240989	200	0.1124785
Dichlorodifluoromethane	2	0.3807089	10	0.4970919	20	0.5052961	50	0.4666862	100	0.5698982	200	0.5606093
Chloromethane	2	1.106623	10	1.116062	20	1.168668	50	1.064564	100	1.154713	200	1.149998
Vinyl chloride	2	1.148511	10	1.203369	20	1.202107	50	1.113249	100	1.197416	200	1.210045
Bromomethane	2	0.7302954	10	0.7469323	20	0.7213822	50	0.7340515	100	0.7696532	200	0.7379234
Chloroethane	2	1.092331	10	1.081891	20	1.058067	50	1.01579	100	1.030954	200	0.9482162
Trichlorofluoromethane	2	0.8805646	10	0.954794	20	0.9028403	50	0.8954467	100	0.9044264	200	0.8426897
Freon 113	2	0.8165833	10	0.8787367	20	0.808157	50	0.7496651	100	0.7556287	200	0.6886622
1,1-Dichloroethene	2	1.157194	10	1.186124	20	1.124918	50	1.037837	100	1.043331	200	0.9359493
Carbon disulfide	2	1.806597	10	1.865694	20	1.725002	50	1.652411	100	1.657518	200	1.484813
Methyl Acetate	2	0.2712594	10	0.2907278	20	0.2672659	50	0.2447085	100	0.2467158	200	0.22443
Methylene Chloride	2	2.616235	10	1.335092	20	1.08993	50	0.8915854	100	0.8786063	200	0.7711456
trans-1,2-Dichloroethene	2	0.9811449	10	1.038136	20	0.9455016	50	0.9036393	100	0.9198471	200	0.8560454
1,1-Dichloroethane	2	1.182786	10	1.327552	20	1.221099	50	1.167827	100	1.17609	200	1.080165
Vinyl acetate	2	0.830555	10	0.9237047	20	0.8205534	50	0.8106323	100	0.8418503	200	0.779817
2,2-Dichloropropane	2	0.7923799	10	0.839968	20	0.7646119	50	0.7522655	100	0.7687295	200	0.7188003
2-Butanone	2	0.1931995	10	0.1868724	20	0.160013	50	0.1667439	100	0.173902	200	0.1586938
cis-1,2-Dichloroethene	2	0.8852397	10	0.9554383	20	0.8845004	50	0.8550231	100	0.86518	200	0.7892956
Chloroform	2	0.8532891	10	0.905995	20	0.8164571	50	0.8110659	100	0.812196	200	0.7682898
Bromochloromethane	2	0.3093811	10	0.3291657	20	0.2976002	50	0.2863475	100	0.2978677	200	0.2784187
Cyclohexane	2	1.597636	10	1.614333	20	1.461302	50	1.379457	100	1.385563	200	1.258481
1,1,1-Trichloroethane	2	0.6170257	10	0.6966995	20	0.6587765	50	0.622373	100	0.6289029	200	0.5905465
t-Butyl alcohol	20	2.610545E-02	100	2.787181E-02	200	2.403244E-02	500	2.450123E-02	1000	2.541485E-02	2000	2.333736E-02
1,1-Dichloropropene	2	0.1788583	10	0.1895883	20	0.1662109	50	0.1667225	100	0.1698093	200	0.1565209





## INITIAL CALIBRATION DATA

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**  
 Work Order: **1502323**  
 Project: **255 East 138th Street, Bronx, NY**

Calibration: 15L1401	Instrument: GC/MS D
	Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Carbon Tetrachloride	2	0.3068186	10	0.3298264	20	0.317528	50	0.3053304	100	0.3085796	200	0.2864644
1,2-Dichloroethane	2	0.2410018	10	0.2538409	20	0.2453324	50	0.2318278	100	0.2420106	200	0.2203384
Benzene	2	1.418492	10	1.3777	20	1.323777	50	1.264174	100	1.293646	200	1.167396
Trichloroethene	2	0.3018507	10	0.3138439	20	0.2945539	50	0.2905467	100	0.2985951	200	0.2785111
Methylcyclohexane	2	0.6811249	10	0.6797495	20	0.6434447	50	0.6146638	100	0.62616	200	0.5718805
1,2-Dichloropropane	2	0.3846636	10	0.368298	20	0.3424846	50	0.3398694	100	0.3493031	200	0.3250045
1,4-Dioxane	80	0	160	0	320	0	640	0	2000	0	5000	0
Bromodichloromethane	2	0.2862998	10	0.3248128	20	0.297161	50	0.2898399	100	0.3028213	200	0.290225
Dibromomethane	2	0.1108286	10	0.1308846	20	0.1255283	50	0.1208229	100	0.1203697	200	0.1150022
2-Chloroethyl vinyl ether	2	0.1089017	10	0.1474185	20	0.1314344	50	0.1332495	100	0.1408939	200	0.1330203
cis-1,3-Dichloropropene	2	0.4507513	10	0.4536403	20	0.4370751	50	0.4276605	100	0.4410257	200	0.4122343
Toluene	2	1.370018	10	1.308372	20	1.267052	50	1.20837	100	1.213888	200	1.114299
trans-1,3-Dichloropropene	2	0.309724	10	0.3428717	20	0.3077794	50	0.3116305	100	0.3235293	200	0.3067378
1,1,2-Trichloroethane	2	0.1868521	10	0.1931221	20	0.1726842	50	0.1672119	100	0.1700975	200	0.1622578
4-Methyl-2-pentanone	2	0.1629762	10	0.1886275	20	0.1637579	50	0.1687178	100	0.1697326	200	0.1609569
1,2-Dibromoethane	2	0.1643913	10	0.1877763	20	0.1647501	50	0.1682631	100	0.1692794	200	0.1619819
2-Hexanone	2	0.1648101	10	0.1911862	20	0.1618186	50	0.1665849	100	0.176052	200	0.1596074
1,3-Dichloropropane	2	0.4361324	10	0.4858041	20	0.4241337	50	0.4202049	100	0.4236961	200	0.3802333
Tetrachloroethene	2	0.4322031	10	0.4288974	20	0.4132549	50	0.39521	100	0.4088314	200	0.3675576
Dibromochloromethane	2	0.23235	10	0.2748823	20	0.2456656	50	0.2497696	100	0.264189	200	0.2391804
Ethylbenzene	2	1.869526	10	1.823298	20	1.788442	50	1.702567	100	1.726048	200	1.502551
Chlorobenzene	2	1.114699	10	1.065524	20	1.009849	50	1.015502	100	1.018584	200	0.9045536
1,1,1,2-Tetrachloroethane	2	0.2848944	10	0.321508	20	0.2826148	50	0.2865337	100	0.296715	200	0.2776071
m,p-Xylenes	4	1.37699	20	1.29328	40	1.305728	100	1.224042	200	1.240305	400	1.066145
o-Xylene	4	1.333868	20	1.239083	40	1.266614	100	1.190795	200	1.198178	400	1.033824
Styrene	4	1.113907	20	1.040939	40	1.062321	100	1.048095	200	1.061784	400	0.9500761



## INITIAL CALIBRATION DATA

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration: 15L1401	Instrument: GC/MS D
	Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Bromoform	2	0.1062916	10	0.1278204	20	0.1193917	50	0.1189715	100	0.1280197	200	0.1238804
Isopropylbenzene	2	4.611445	10	4.647934	20	4.257236	50	4.126275	100	4.138955	200	3.644435
1,1,2,2-Tetrachloroethane	2	0.5704098	10	0.6760906	20	0.5513061	50	0.5473392	100	0.5450345	200	0.5209393
1,2,3-Trichloropropane	2	0.4375767	10	0.4907402	20	0.4085806	50	0.404159	100	0.4133488	200	0.3825147
n-Propyl Benzene	2	5.489223	10	5.484817	20	5.23331	50	4.918011	100	4.964946	200	4.240355
Bromobenzene	2	1.474385	10	1.424591	20	1.325183	50	1.253594	100	1.314239	200	1.181528
1,3,5-Trimethylbenzene	2	3.332105	10	3.422204	20	3.109919	50	3.042326	100	3.055033	200	2.702833
2-Chlorotoluene	2	2.706142	10	2.796716	20	2.581488	50	2.4354	100	2.488127	200	2.225954
4-Chlorotoluene	2	2.881454	10	2.689321	20	2.624457	50	2.495672	100	2.524666	200	2.254751
tert-Butylbenzene	2	3.295799	10	3.193461	20	3.045828	50	2.878314	100	2.972506	200	2.590389
1,2,4-Trimethylbenzene	2	3.301339	10	3.406298	20	3.081045	50	2.956998	100	2.990922	200	2.628709
sec-Butylbenzene	2	5.158768	10	5.014775	20	4.812371	50	4.541909	100	4.652462	200	3.911833
p-Isopropyltoluene	2	3.88667	10	4.122464	20	4.000302	50	3.753845	100	3.854112	200	3.278738
1,3-Dichlorobenzene	2	1.905011	10	1.794726	20	1.704849	50	1.636908	100	1.670119	200	1.506117
1,4-Dichlorobenzene	2	1.905011	10	1.683804	20	1.64149	50	1.585571	100	1.63423	200	1.469191
n-Butyl Benzene	2	3.832623	10	3.8869	20	3.763998	50	3.499649	100	3.587822	200	3.005716
1,2-Dichlorobenzene	2	1.600122	10	1.45708	20	1.44653	50	1.347046	100	1.395014	200	1.233807
1,2-Dibromo-3-chloropropane	2	4.874924E-02	10	7.154456E-02	20	7.590514E-02	50	7.946066E-02	100	8.903614E-02	200	0.0789066
1,2,4-Trichlorobenzene	2	0.8787986	10	0.8170278	20	0.8691385	50	0.7925035	100	0.859437	200	0.7565337
Hexachlorobutadiene	2	0.5029969	10	0.4786609	20	0.530009	50	0.4710129	100	0.506233	200	0.4437102
Naphthalene	2	1.678082	10	1.455882	20	1.522815	50	1.368258	100	1.496067	200	1.271203
1,2,3-Trichlorobenzene	2	0.7667191	10	0.6714097	20	0.7159485	50	0.6357586	100	0.6852085	200	0.581361
Methyl tert-Butyl Ether	4	1.757233	20	2.042803	40	1.55241	100	1.524045	200	1.550158	400	1.336198
1,2-Dichloroethane-d4	2	0.2069795	10	0.2069379	20	0.1961308	50	0.1900853	100	0.1958876	200	0.1799649
Toluene-d8	2	1.091682	10	1.064714	20	1.030377	50	0.9825928	100	1.003772	200	0.9187683
Bromofluorobenzene	2	0.3358279	10	0.2822432	20	0.2975069	50	0.2882341	100	0.2963155	200	0.277855



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.027946E-02	10.82104		
Acrylonitrile	9.672611E-02	6.510138		
Acetone	0.157306	42.33686		
Dichlorodifluoromethane	0.4967151	13.91056		
Chloromethane	1.126771	3.429468	SPCC (0.1)	
Vinyl chloride	1.179116	3.32457	CCC (20)	
Bromomethane	0.7400397	2.267457		
Chloroethane	1.037875	5.077389		
Trichlorofluoromethane	0.8967936	4.06701		
Freon 113	0.7829055	8.411971		
1,1-Dichloroethene	1.080892	8.590248	CCC (20)	
Carbon disulfide	1.698673	7.889689		
Methyl Acetate	0.2575179	9.127351		
Methylene Chloride	1.263766	54.75354		
trans-1,2-Dichloroethene	0.9407191	6.744489		
1,1-Dichloroethane	1.192587	6.775722	SPCC (0.1)	
Vinyl acetate	0.8345188	5.816735		
2,2-Dichloropropane	0.7727925	5.27732		
2-Butanone	0.1732374	8.217978		
cis-1,2-Dichloroethene	0.8724462	6.165484		
Chloroform	0.8278822	5.654662	CCC (20)	
Bromochloromethane	0.2997968	5.968461		
Cyclohexane	1.449462	9.49653		
1,1,1-Trichloroethane	0.6357207	5.828603		
t-Butyl alcohol	2.521052E-02	6.475355		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.171285	6.702949		
Carbon Tetrachloride	0.3090912	4.649522		
1,2-Dichloroethane	0.2390586	4.853429		
Benzene	1.307531	6.772749		
Trichloroethene	0.2963169	3.982943		
Methylcyclohexane	0.6361706	6.545202		
1,2-Dichloropropane	0.3516039	6.106969	CCC (20)	
1,4-Dioxane	0	0		
Bromodichloromethane	0.2985266	4.749495		
Dibromomethane	0.1205727	5.945825		
2-Chloroethyl vinyl ether	0.1324864	9.852093		
cis-1,3-Dichloropropene	0.4370645	3.518954		
Toluene	1.247	7.127683	CCC (20)	
trans-1,3-Dichloropropene	0.3170455	4.42491		
1,1,2-Trichloroethane	0.1753709	6.844895		
4-Methyl-2-pentanone	0.1691282	5.996129		
1,2-Dibromoethane	0.169407	5.542053		
2-Hexanone	0.1700099	6.954817		
1,3-Dichloropropane	0.4283674	7.938849		
Tetrachloroethene	0.4076591	5.855779		
Dibromochloromethane	0.2510061	6.328892		
Ethylbenzene	1.735405	7.465008	CCC (20)	
Chlorobenzene	1.021452	6.850318	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2916455	5.459912		
m,p-Xylenes	1.251082	8.43402		



## INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.210394	8.339062		
Styrene	1.046187	5.122184		
Bromoform	0.1207292	6.695315	SPCC (0.1)	
Isopropylbenzene	4.237713	8.718285		
1,1,2,2-Tetrachloroethane	0.5685199	9.67757	SPCC (0.3)	
1,2,3-Trichloropropane	0.42282	8.909843		
n-Propyl Benzene	5.05511	9.260016		
Bromobenzene	1.32892	8.100456		
1,3,5-Trimethylbenzene	3.110737	8.1349		
2-Chlorotoluene	2.538971	8.023123		
4-Chlorotoluene	2.578387	8.149177		
tert-Butylbenzene	2.99605	8.314579		
1,2,4-Trimethylbenzene	3.060885	9.006546		
sec-Butylbenzene	4.68202	9.401038		
p-Isopropyltoluene	3.816022	7.656689		
1,3-Dichlorobenzene	1.702955	8.027357		
1,4-Dichlorobenzene	1.653216	8.693287		
n-Butyl Benzene	3.596118	9.024649		
1,2-Dichlorobenzene	1.413266	8.658258		
1,2-Dibromo-3-chloropropane	7.393372E-02	18.41883		
1,2,4-Trichlorobenzene	0.8289065	5.84681		
Hexachlorobutadiene	0.4887705	6.24326		
Naphthalene	1.465385	9.49072		
1,2,3-Trichlorobenzene	0.6760676	9.472887		
Methyl tert-Butyl Ether	1.627141	14.96554		



INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1502323  
 Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,2-Dichloroethane-d4	0.1959977	5.264448		
Toluene-d8	1.015318	6.075297		
Bromofluorobenzene	0.2963304	7.025003		

\* Values outside of QC limits



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS D	Calibration: 15L1401
Lab File ID: D13564.D	Calibration Date: 12/01/15 19:29
Sequence: S5L2311	Injection Date: 12/23/15
Lab Sample ID: S5L2311-CCV1	Injection Time: 12:35

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	L	250	214	1.027946E-02	8.790699E-03		-14.5	
Acrylonitrile	A	250	256	9.672611E-02	9.914398E-02		2.5	
Acetone	L	50.0	52.2	0.157306	0.1271665		-19.2	
Dichlorodifluoromethane	A	50.0	49.2	0.4967151	0.4888412		-1.6	
Chloromethane	A	50.0	48.2	1.126771	1.086967	0.1	-3.5	
Vinyl chloride	A	50.0	49.6	1.179116	1.169421		-0.8	20
Bromomethane	A	50.0	52.6	0.7400397	0.7787992		5.2	
Chloroethane	A	50.0	51.2	1.037875	1.063638		2.5	
Trichlorofluoromethane	A	50.0	55.9	0.8967936	1.002899		11.8	
Freon 113	A	50.0	44.2	0.7829055	0.6918141		-11.6	
1,1-Dichloroethene	A	50.0	47.1	1.080892	1.017384		-5.9	20
Carbon disulfide	A	50.0	41.0	1.698673	1.392985		-18.0	
Methyl Acetate	A	50.0	52.7	0.2575179	0.2715775		5.5	
Methylene Chloride	L	50.0	64.3	1.263766	1.100273		-12.9	
trans-1,2-Dichloroethene	A	50.0	48.6	0.9407191	0.9133449		-2.9	
1,1-Dichloroethane	A	50.0	51.6	1.192587	1.230949	0.1	3.2	
Vinyl acetate	A	50.0	48.9	0.8345188	0.8161208		-2.2	
2,2-Dichloropropane	A	50.0	52.0	0.7727925	0.802857		3.9	
2-Butanone	A	50.0	55.7	0.1732374	0.1929099		11.4	
cis-1,2-Dichloroethene	A	50.0	51.0	0.8724462	0.8891616		1.9	
Chloroform	A	50.0	51.3	0.8278822	0.8495421		2.6	20
Bromochloromethane	A	50.0	52.4	0.2997968	0.3141318		4.8	
Cyclohexane	A	50.0	46.6	1.449462	1.349664		-6.9	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS D	Calibration: 15L1401
Lab File ID: D13564.D	Calibration Date: 12/01/15 19:29
Sequence: S5L2311	Injection Date: 12/23/15
Lab Sample ID: S5L2311-CCV1	Injection Time: 12:35

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR		% DIFF		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	52.0	0.6357207	0.6614858		4.1	
t-Butyl alcohol	A	500	577	2.521052E-02	2.911213E-02		15.5	
1,1-Dichloropropene	A	50.0	50.8	0.171285	0.1739147		1.5	
Carbon Tetrachloride	A	50.0	52.4	0.3090912	0.3239658		4.8	
1,2-Dichloroethane	A	50.0	51.6	0.2390586	0.246754		3.2	
Benzene	A	50.0	50.3	1.307531	1.314856		0.6	
Trichloroethene	A	50.0	51.6	0.2963169	0.3060651		3.3	
Methylcyclohexane	A	50.0	48.1	0.6361706	0.6119037		-3.8	
1,2-Dichloropropane	A	50.0	51.2	0.3516039	0.3597818		2.3	20
Bromodichloromethane	A	50.0	53.1	0.2985266	0.3168405		6.1	
Dibromomethane	A	50.0	54.9	0.1205727	0.1324421		9.8	
2-Chloroethyl vinyl ether	A	50.0	56.9	0.1324864	0.1506756		13.7	
cis-1,3-Dichloropropene	A	50.0	53.7	0.4370645	0.4692355		7.4	
Toluene	A	50.0	50.1	1.247	1.250203		0.3	20
trans-1,3-Dichloropropene	A	50.0	54.1	0.3170455	0.343064		8.2	
1,1,2-Trichloroethane	A	50.0	52.6	0.1753709	0.184561		5.2	
4-Methyl-2-pentanone	A	50.0	54.0	0.1691282	0.1828256		8.1	
1,2-Dibromoethane	A	50.0	53.3	0.169407	0.1804497		6.5	
2-Hexanone	A	50.0	54.9	0.1700099	0.1866617		9.8	
1,3-Dichloropropane	A	50.0	51.2	0.4283674	0.4384861		2.4	
Tetrachloroethene	A	50.0	49.7	0.4076591	0.4049548		-0.7	
Dibromochloromethane	A	50.0	54.0	0.2510061	0.2709184		7.9	
Ethylbenzene	A	50.0	50.0	1.735405	1.736608		0.07	20





## CONTINUING CALIBRATION VERIFICATION

EPA 8260

**Client:** BRINKERHOFF ENVIRONMENTAL  
**Work Order:** 1502323  
**Project:** 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS D	Calibration: 15L1401
Lab File ID: D13564.D	Calibration Date: 12/01/15 19:29
Sequence: S5L2311	Injection Date: 12/23/15
Lab Sample ID: S5L2311-CCV1	Injection Time: 12:35

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	49.4	1.021452	1.008615	0.3	-1.3	
1,1,1,2-Tetrachloroethane	A	50.0	51.8	0.2916455	0.3021747		3.6	
m,p-Xylenes	A	100	99.0	1.251082	1.238642		-1.0	
o-Xylene	A	100	97.6	1.210394	1.181021		-2.4	
Styrene	A	100	98.8	1.046187	1.034156		-1.1	
Bromoform	A	50.0	54.0	0.1207292	0.1303716	0.1	8.0	
Isopropylbenzene	A	50.0	49.4	4.237713	4.190133		-1.1	
1,1,2,2-Tetrachloroethane	A	50.0	50.6	0.5685199	0.5749276	0.3	1.1	
1,2,3-Trichloropropane	A	50.0	49.7	0.42282	0.4199464		-0.7	
n-Propyl Benzene	A	50.0	48.1	5.05511	4.864719		-3.8	
Bromobenzene	A	50.0	47.4	1.32892	1.260484		-5.1	
1,3,5-Trimethylbenzene	A	50.0	48.4	3.110737	3.011861		-3.2	
2-Chlorotoluene	A	50.0	48.2	2.538971	2.445025		-3.7	
4-Chlorotoluene	A	50.0	47.5	2.578387	2.448607		-5.0	
tert-Butylbenzene	A	50.0	47.5	2.99605	2.84565		-5.0	
1,2,4-Trimethylbenzene	A	50.0	48.4	3.060885	2.964569		-3.1	
sec-Butylbenzene	A	50.0	48.8	4.68202	4.57074		-2.4	
p-Isopropyltoluene	A	50.0	48.8	3.816022	3.723507		-2.4	
1,3-Dichlorobenzene	A	50.0	47.1	1.702955	1.604902		-5.8	
1,4-Dichlorobenzene	A	50.0	46.8	1.653216	1.545716		-6.5	
n-Butyl Benzene	A	50.0	47.8	3.596118	3.437328		-4.4	
1,2-Dichlorobenzene	A	50.0	47.6	1.413266	1.346608		-4.7	
1,2-Dibromo-3-chloropropane	L	50.0	53.1	7.393372E-02	0.0862509		16.7	



## CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL  
 Work Order: 1502323  
 Project: 255 East 138th Street, Bronx, NY

Instrument ID: GC/MS D	Calibration: 15L1401
Lab File ID: D13564.D	Calibration Date: 12/01/15 19:29
Sequence: S5L2311	Injection Date: 12/23/15
Lab Sample ID: S5L2311-CCV1	Injection Time: 12:35

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR		% DIFF	
		STD	CCV	ICAL	CCV	MIN (#)	CCV
1,2,4-Trichlorobenzene	A	50.0	48.5	0.8289065	0.8035189		-3.1
Hexachlorobutadiene	A	50.0	49.4	0.4887705	0.483174		-1.1
Naphthalene	A	50.0	48.4	1.465385	1.41739		-3.3
1,2,3-Trichlorobenzene	A	50.0	47.4	0.6760676	0.6402587		-5.3
Methyl tert-Butyl Ether	A	100	85.6	1.627141	1.393285		-14.4
1,2-Dichloroethane-d4	A	50.0	50.8	0.1959977	0.1992417		1.7
Toluene-d8	A	50.0	50.6	1.015318	1.027716		1.2
Bromofluorobenzene	A	50.0	52.3	0.2963304	0.3098564		4.6

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

Data File : D:\D\DATA15\DEC15\D1223\D13564.D  
 Acq On : 23 Dec 2015 12:35  
 Sample : S5L2311-CCV1  
 Misc : SOIL

Vial: 1  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 24 9:07 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
 Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Mon Dec 07 10:21:05 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	733275	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1316145	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1058444	50.00	ug/l	-0.01
60) 1,4-Dichlorobenzene-d4	14.20	152	459230	50.00	ug/l	-0.02

System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.45	65	262231	50.83	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.66%
41) Toluene-d8	9.05	98	1352623	50.61	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.22%
47) Bromofluorobenzene	12.83	95	407816	52.28	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.56%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.96	56	32230	213.79	ug/l	95
3) Acrylonitrile	4.39	53	363499	256.25	ug/l	96
4) Acetone	3.33	43	93248	52.21	ug/l	94
5) Dichlorodifluoromethane	1.34	85	358455	49.21	ug/l	95
6) Chloromethane	1.50	50	797046	48.23	ug/l	98
7) Vinyl Chloride	1.57	62	857507	49.59	ug/l	97
8) Bromomethane	1.84	94	571074	52.62	ug/l	96
9) Chloroethane	1.95	64	779939	51.24	ug/l	98
10) Trichlorofluoromethane	2.06	101	735401	55.92	ug/l	95
11) Freon-113	2.61	101	507290	44.18	ug/l	98
12) 1,1-Dichloroethene	2.56	61	746022	47.06	ug/l	90
13) Carbon disulfide	2.56	76	1021441	41.00	ug/l	97
14) Methyl Acetate	3.50	43	199141	52.73	ug/l	100
15) Methylene Chloride	3.22	49	806803m	64.34	ug/l	
16) trans-1,2-Dichloroethene	3.41	61	669733	48.55	ug/l	87
17) 1,1-Dichloroethane	4.27	63	902624	51.61	ug/l	99
18) Vinyl acetate	4.72	43	598441	48.90	ug/l	95
19) 2,2-Dichloropropane	5.19	77	588715	51.95	ug/l	94
20) 2-Butanone	5.96	43	141456	55.68	ug/l	99
21) cis-1,2-Dichloroethene	5.05	61	652000	50.96	ug/l	91
22) Chloroform	5.48	83	622948	51.31	ug/l	98
23) Bromochloromethane	5.34	130	230345	52.39	ug/l	92
24) Cyclohexane	5.27	56	989675	46.56	ug/l	92
25) 1,1,1-Trichloroethane	5.70	97	485051	52.03	ug/l	93
26) T-butyl alcohol	3.86	59	213472	577.38	ug/l	94
29) 1,1-Dichloropropene	5.89	110	228897	50.77	ug/l	96
30) Carbon Tetrachloride	5.59	117	426386	52.41	ug/l	99
31) 1,2-Dichloroethane	6.54	62	324764	51.61	ug/l	91
32) Benzene	6.24	78	1730541	50.28	ug/l	97
33) Trichloroethene	7.07	95	402826	51.64	ug/l	97
34) Methylcyclohexane	7.01	83	805354	48.09	ug/l	90
35) 1,2-Dichloropropane	7.79	63	473525	51.16	ug/l	93
37) Bromodichloromethane	7.92	83	417008	53.07	ug/l	97
38) Dibromomethane	7.65	174	174313	54.92	ug/l	95
39) 2-Chloroethylvinylether	8.78	63	198311	56.86	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	617582	53.68	ug/l	97
42) Toluene	9.12	91	1645449	50.13	ug/l	99
43) trans-1,3-Dichloropropene	9.75	75	451522	54.10	ug/l	96
44) 1,1,2-Trichloroethane	9.96	97	242909	52.62	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	240625	54.05	ug/l	91
46) 1,2-Dibromoethane	10.47	107	237498	53.26	ug/l	84
49) 2-Hexanone	10.92	43	197571	54.90	ug/l	98
50) 1,3-dichloropropane	10.32	76	464113	51.18	ug/l	99
51) Tetrachloroethene	9.63	166	428622	49.67	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 D13564.D VD8S1201.M Mon Dec 28 11:49:55 2015

Data File : D:\D\DATA15\DEC15\D1223\D13564.D  
 Acq On : 23 Dec 2015 12:35  
 Sample : S5L2311-CCV1  
 Misc : SOIL

Vial: 1  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 24 9:07 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Mon Dec 07 10:21:05 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.18	129	286752	53.97	ug/l	92
53) Ethylbenzene	11.30	91	1838102	50.03	ug/l	97
54) Chlorobenzene	11.23	112	1067562	49.37	ug/l	99
55) 1,1,1,2-Tetrachloroethane	11.34	131	319835	51.81	ug/l	99
56) m,p-Xylene	11.51	91	2622066	99.01	ug/l	97
57) o-Xylene	12.07	91	2500089	97.57	ug/l	99
58) Styrene	12.14	104	2189192	98.85	ug/l	99
59) Bromoform	12.15	173	137991	53.99	ug/l	82
61) Isopropylbenzene	12.48	105	1924235	49.44	ug/l	98
62) 1,1,2,2-Tetrachloroethane	13.13	83	264024	50.56	ug/l	96
63) 1,2,3-Trichloropropane	13.27	75	192852	49.66	ug/l	94
64) n-Propyl benzene	13.01	91	2234025	48.12	ug/l	94
65) Bromobenzene	12.93	77	578852	47.43	ug/l	97
66) 1,3,5-Trimethylbenzene	13.27	105	1383137	48.41	ug/l	98
67) 2-Chlorotoluene	13.17	91	1122829	48.15	ug/l	93
68) 4-Chlorotoluene	13.39	91	1124474	47.48	ug/l	91
69) tert-Butylbenzene	13.65	119	1306808	47.49	ug/l	97
70) 1,2,4-Trimethylbenzene	13.75	105	1361419	48.43	ug/l	99
71) sec-Butylbenzene	13.87	105	2099021	48.81	ug/l	99
72) p-Isopropyltoluene	14.06	119	1709946	48.79	ug/l	99
73) 1,3-Dichlorobenzene	14.11	146	737019	47.12	ug/l	96
74) 1,4-Dichlorobenzene	14.22	146	709839	46.75	ug/l	97
75) n-Butylbenzene	14.57	91	1578524	47.79	ug/l	96
76) 1,2-Dichlorobenzene	14.73	146	618403	47.64	ug/l	97
77) 1,2-Dibromo-3-Chloropropan	15.70	157	39609	53.08	ug/l #	83
78) 1,2,4-Trichlorobenzene	16.50	180	369000	48.47	ug/l	97
79) Hexachlorobutadiene	16.47	225	221888	49.43	ug/l	95
80) Naphthalene	16.89	128	650908	48.36	ug/l	98
81) 1,2,3-Trichlorobenzene	17.10	180	294026	47.35	ug/l	99
82) Methyl t-butyl ether	3.60	73	1279677	85.63	ug/l	97

(#) = qualifier out of range (m) = manual integration

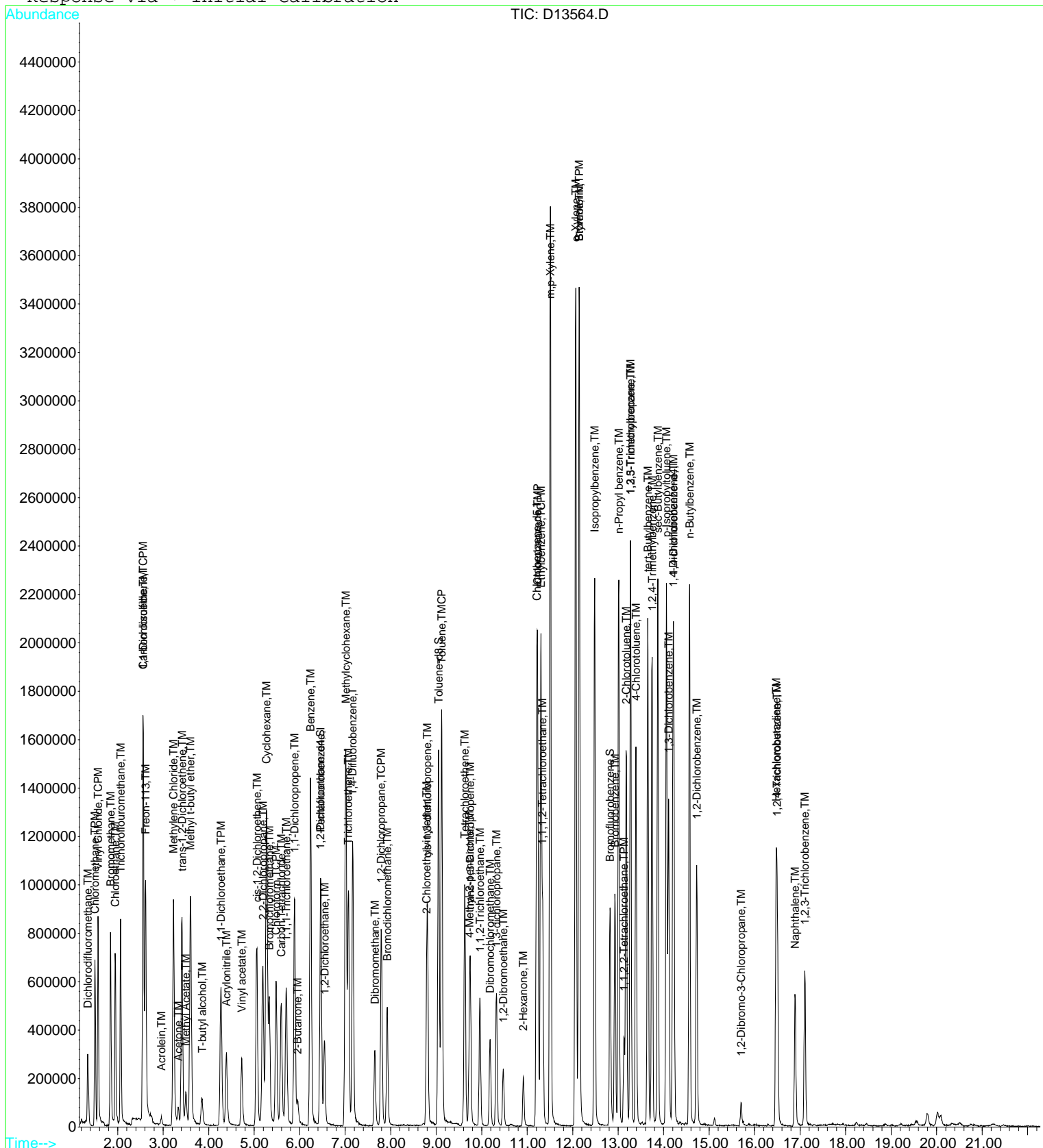
D13564.D VD8S1201.M Mon Dec 28 11:49:56 2015

Data File : D:\D\DATA15\DEC15\D1223\D13564.D  
Acq On : 23 Dec 2015 12:35  
Sample : S5L2311-CCV1  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 24 9:07 2015

Vial: 1  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



**VOLATILES SAMPLE  
DATA  
RAW DATA**

Data File : D:\D\DATA15\DEC15\D1201\D13256.D  
 Acq On : 1 Dec 2015 14:40  
 Sample : S5L0109-CAL1  
 Misc : SOIL

Vial: 1  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 1 18:05 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	935820	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1660672	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1247041	50.00	ug/l	-0.01
60) 1,4-Dichlorobenzene-d4	14.21	152	514367	50.00	ug/l	-0.02

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.45	65	13749	2.16	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	4.32%#
41) Toluene-d8	9.06	98	72517	2.24	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	4.48%#
47) Bromofluorobenzene	12.83	95	22308	2.32	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	4.64%#

Target Compounds

						Qvalue
2) Acrolein	2.96	56	1651	12.43	ug/l	90
3) Acrylonitrile	4.40	53	19279	12.03	ug/l	99
4) Acetone	3.33	43	10788	6.88	ug/l #	63
5) Dichlorodifluoromethane	1.34	85	14251	Below Cal		82
6) Chloromethane	1.51	50	41424	2.80	ug/l	89
7) Vinyl Chloride	1.57	62	42992	2.54	ug/l	88
8) Bromomethane	1.85	94	27337	2.38	ug/l	90
9) Chloroethane	1.95	64	40889	2.40	ug/l	94
10) Trichlorofluoromethane	2.08	101	32962	2.20	ug/l	84
11) Freon-113	2.62	101	30567	2.28	ug/l	92
12) 1,1-Dichloroethene	2.56	61	43317	2.19	ug/l #	79
13) Carbon disulfide	2.56	76	67626	1.96	ug/l #	21
14) Methyl Acetate	3.51	43	10154m	2.21	ug/l	
15) Methylene Chloride	3.23	49	97933	4.34	ug/l	100
16) trans-1,2-Dichloroethene	3.41	61	36727	2.28	ug/l	90
17) 1,1-Dichloroethane	4.27	63	44275	2.17	ug/l	95
18) Vinyl acetate	4.74	43	31090	2.24	ug/l	87
19) 2,2-Dichloropropane	5.19	77	29661	2.19	ug/l	86
20) 2-Butanone	5.99	43	7232	2.66	ug/l	92
21) cis-1,2-Dichloroethene	5.06	61	33137	2.28	ug/l	98
22) Chloroform	5.48	83	31941	2.28	ug/l	84
23) Bromochloromethane	5.34	130	11581	2.19	ug/l	92
24) Cyclohexane	5.28	56	59804	2.38	ug/l	87
25) 1,1,1-Trichloroethane	5.71	97	23097	2.13	ug/l	83
26) T-butyl alcohol	3.85	59	9772m	24.15	ug/l	
29) 1,1-Dichloropropene	5.90	110	11881	2.29	ug/l #	74
30) Carbon Tetrachloride	5.60	117	20381	2.07	ug/l	85
31) 1,2-Dichloroethane	6.54	62	16009	2.20	ug/l	92
32) Benzene	6.25	78	94226	2.29	ug/l	95
33) Trichloroethene	7.07	95	20051	2.18	ug/l	90
34) Methylcyclohexane	7.02	83	45245	2.25	ug/l	93
35) 1,2-Dichloropropane	7.80	63	25552	2.41	ug/l	97
37) Bromodichloromethane	7.93	83	19018	2.21	ug/l	88
38) Dibromomethane	7.67	174	7362	1.92	ug/l	94
39) 2-Chloroethylvinylether	8.80	63	7234	1.73	ug/l	82
40) cis-1,3-dichloropropene	8.81	75	29942	2.27	ug/l	90
42) Toluene	9.13	91	91006	2.39	ug/l	92
43) trans-1,3-Dichloropropene	9.75	75	20574	2.16	ug/l	95
44) 1,1,2-Trichloroethane	9.96	97	12412	2.42	ug/l #	73
45) 4-Methyl-2-pentanone	9.74	43	10826	2.03	ug/l	85
46) 1,2-Dibromoethane	10.48	107	10920	2.22	ug/l	94
49) 2-Hexanone	10.93	43	8221	2.22	ug/l	77
50) 1,3-dichloropropane	10.33	76	21755	2.21	ug/l	87
51) Tetrachloroethene	9.63	166	21559	2.23	ug/l	87

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1201\D13256.D  
 Acq On : 1 Dec 2015 14:40  
 Sample : S5L0109-CAL1  
 Misc : SOIL

Vial: 1  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:05 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Tue Dec 01 14:59:37 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.18	129	11590	2.01	ug/l #	64
53) Ethylbenzene	11.31	91	93255	2.37	ug/l	90
54) Chlorobenzene	11.23	112	55603	2.43	ug/l	92
55) 1,1,1,2-Tetrachloroethane	11.34	131	14211	2.16	ug/l #	78
56) m,p-Xylene	11.52	91	137373	4.83	ug/l	99
57) o-Xylene	12.07	91	133071	4.77	ug/l	95
58) Styrene	12.15	104	111127	4.75	ug/l	100
59) Bromoform	12.16	173	5302	1.98	ug/l	97
61) Isopropylbenzene	12.48	105	94879	2.40	ug/l	99
62) 1,1,1,2-Tetrachloroethane	13.13	83	11736	2.27	ug/l	93
63) 1,2,3-Trichloropropane	13.27	75	9003	2.32	ug/l	83
64) n-Propyl benzene	13.01	91	112939	2.38	ug/l	98
65) Bromobenzene	12.94	77	30335	2.46	ug/l	98
66) 1,3,5-Trimethylbenzene	13.27	105	68557	2.40	ug/l	93
67) 2-Chlorotoluene	13.18	91	55678	2.34	ug/l	86
68) 4-Chlorotoluene	13.40	91	59285	2.49	ug/l	94
69) tert-Butylbenzene	13.65	119	67810	2.42	ug/l	97
70) 1,2,4-Trimethylbenzene	13.75	105	67924	2.41	ug/l	97
71) sec-Butylbenzene	13.87	105	106140	2.49	ug/l	98
72) p-Isopropyltoluene	14.06	119	79967	2.24	ug/l	95
73) 1,3-Dichlorobenzene	14.23	146	39195	2.47	ug/l	100
74) 1,4-Dichlorobenzene	14.23	146	39195	2.55	ug/l	97
75) n-Butylbenzene	14.57	91	78855	2.37	ug/l	98
76) 1,2-Dichlorobenzene	14.73	146	32922	2.55	ug/l	84
77) 1,2-Dibromo-3-Chloropropan	15.71	157	1003	4.25	ug/l #	74
78) 1,2,4-Trichlorobenzene	16.51	180	18081	2.45	ug/l	98
79) Hexachlorobutadiene	16.48	225	10349	2.50	ug/l	95
80) Naphthalene	16.89	128	34526	2.69	ug/l	95
81) 1,2,3-Trichlorobenzene	17.11	180	15775	2.78	ug/l	98
82) Methyl t-butyl ether	3.61	73	72309	4.55	ug/l	89

(#) = qualifier out of range (m) = manual integration

D13256.D VD8S1201.M Wed Jan 13 13:16:26 2016

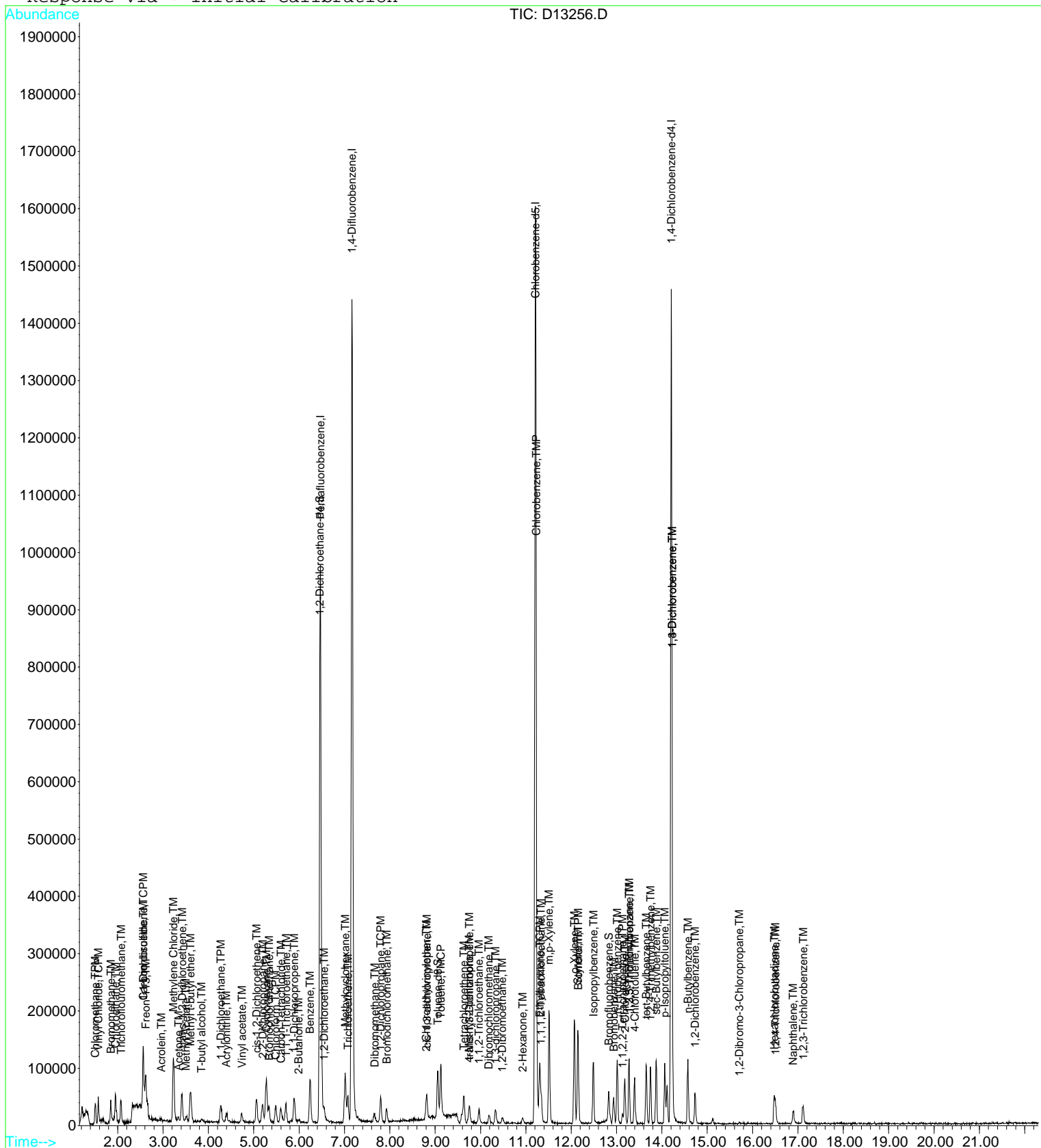


Data File : D:\D\DATA15\DEC15\D1201\D13256.D  
Acq On : 1 Dec 2015 14:40  
Sample : S5L0109-CAL1  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 1 18:05 2015

Vial: 1  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



Data File : D:\D\DATA15\DEC15\D1201\D13257.D  
 Acq On : 1 Dec 2015 15:11  
 Sample : S5L0109-CAL2  
 Misc : SOIL

Vial: 2  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:09 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	861390	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1550755	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1143362	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	450768	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.45	65	64182	10.80	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	21.60%#
41) Toluene-d8	9.05	98	330222	10.92	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	21.84%#
47) Bromofluorobenzene	12.83	95	87538	9.76	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	19.52%#

Target Compounds

						Qvalue
2) Acrolein	2.95	56	10408m	53.39	ug/l	
3) Acrylonitrile	4.39	53	89615	60.76	ug/l	97
4) Acetone	3.35	43	28179	19.52	ug/l	77
5) Dichlorodifluoromethane	1.35	85	85638	24.75	ug/l	97
6) Chloromethane	1.51	50	192273	14.12	ug/l	100
7) Vinyl Chloride	1.57	62	207314	13.29	ug/l	97
8) Bromomethane	1.85	94	128680	12.16	ug/l	98
9) Chloroethane	1.95	64	186386	11.89	ug/l	99
10) Trichlorofluoromethane	2.07	101	164490	11.95	ug/l	90
11) Freon-113	2.61	101	151387	12.24	ug/l	97
12) 1,1-Dichloroethene	2.56	61	204343	11.23	ug/l	88
13) Carbon disulfide	2.57	76	321418	10.14	ug/l	89
14) Methyl Acetate	3.50	43	50086	11.86	ug/l	99
15) Methylene Chloride	3.23	49	230007	15.58	ug/l	93
16) trans-1,2-Dichloroethene	3.41	61	178848	12.07	ug/l	85
17) 1,1-Dichloroethane	4.28	63	228708	12.20	ug/l	97
18) Vinyl acetate	4.73	43	159134	12.46	ug/l	100
19) 2,2-Dichloropropane	5.19	77	144708	11.63	ug/l	89
20) 2-Butanone	5.97	43	32194m	12.86	ug/l	
21) cis-1,2-Dichloroethene	5.05	61	164601	12.28	ug/l	85
22) Chloroform	5.49	83	156083	12.11	ug/l	96
23) Bromochloromethane	5.33	130	56708	11.67	ug/l	97
24) Cyclohexane	5.27	56	278114	12.05	ug/l	86
25) 1,1,1-Trichloroethane	5.70	97	120026	12.04	ug/l	89
26) T-butyl alcohol	3.86	59	48017	128.91	ug/l	89
29) 1,1-Dichloropropene	5.88	110	58801	12.15	ug/l	91
30) Carbon Tetrachloride	5.60	117	102296	11.11	ug/l	96
31) 1,2-Dichloroethane	6.55	62	78729	11.61	ug/l	89
32) Benzene	6.24	78	427295	11.14	ug/l	92
33) Trichloroethene	7.08	95	97339	11.31	ug/l	96
34) Methylcyclohexane	7.02	83	210825	11.23	ug/l	97
35) 1,2-Dichloropropane	7.80	63	114228	11.53	ug/l	95
37) Bromodichloromethane	7.93	83	100741	12.56	ug/l	99
38) Dibromomethane	7.66	174	40594	11.36	ug/l	93
39) 2-Chloroethylvinylether	8.80	63	45722	11.74	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	140697	11.44	ug/l	93
42) Toluene	9.12	91	405793	11.41	ug/l	92
43) trans-1,3-Dichloropropene	9.75	75	106342	11.94	ug/l	93
44) 1,1,2-Trichloroethane	9.97	97	59897	12.52	ug/l	93
45) 4-Methyl-2-pentanone	9.73	43	58503	11.76	ug/l	88
46) 1,2-Dibromoethane	10.48	107	58239	12.67	ug/l	80
49) 2-Hexanone	10.93	43	43719	12.89	ug/l	98
50) 1,3-dichloropropane	10.33	76	111090	12.32	ug/l	100
51) Tetrachloroethene	9.63	166	98077	11.06	ug/l	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1201\D13257.D  
 Acq On : 1 Dec 2015 15:11  
 Sample : S5L0109-CAL2  
 Misc : SOIL

Vial: 2  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:09 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Tue Dec 01 14:59:37 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.19	129	62858	11.87	ug/l	93
53) Ethylbenzene	11.30	91	416938	11.56	ug/l	98
54) Chlorobenzene	11.23	112	243656	11.62	ug/l	96
55) 1,1,1,2-Tetrachloroethane	11.35	131	73520	12.16	ug/l	93
56) m,p-Xylene	11.51	91	591475	22.67	ug/l	97
57) o-Xylene	12.07	91	566688	22.14	ug/l	94
58) Styrene	12.15	104	476068	22.20	ug/l	99
59) Bromoform	12.15	173	29229	11.91	ug/l	92
61) Isopropylbenzene	12.49	105	419028	12.09	ug/l	96
62) 1,1,1,2-Tetrachloroethane	13.13	83	60952	13.45	ug/l	90
63) 1,2,3-Trichloropropane	13.27	75	44242	13.01	ug/l	94
64) n-Propyl benzene	13.01	91	494476	11.91	ug/l	97
65) Bromobenzene	12.93	77	128432	11.87	ug/l	98
66) 1,3,5-Trimethylbenzene	13.28	105	308524	12.33	ug/l	97
67) 2-Chlorotoluene	13.18	91	252134	12.07	ug/l	100
68) 4-Chlorotoluene	13.39	91	242452	11.62	ug/l	95
69) tert-Butylbenzene	13.65	119	287902	11.72	ug/l	97
70) 1,2,4-Trimethylbenzene	13.75	105	307090	12.43	ug/l	98
71) sec-Butylbenzene	13.87	105	452100	12.09	ug/l	98
72) p-Isopropyltoluene	14.07	119	371655	11.87	ug/l	96
73) 1,3-Dichlorobenzene	14.11	146	161801	11.64	ug/l	97
74) 1,4-Dichlorobenzene	14.23	146	151801	11.25	ug/l	92
75) n-Butylbenzene	14.57	91	350418	12.03	ug/l	89
76) 1,2-Dichlorobenzene	14.73	146	131361	11.61	ug/l	96
77) 1,2-Dibromo-3-Chloropropan	15.71	157	6450	11.96	ug/l	87
78) 1,2,4-Trichlorobenzene	16.50	180	73658	11.39	ug/l	95
79) Hexachlorobutadiene	16.47	225	43153	11.89	ug/l	94
80) Naphthalene	16.89	128	131253	11.69	ug/l	93
81) 1,2,3-Trichlorobenzene	17.10	180	60530	12.18	ug/l	90
82) Methyl t-butyl ether	3.60	73	368332m	26.47	ug/l	

(#) = qualifier out of range (m) = manual integration

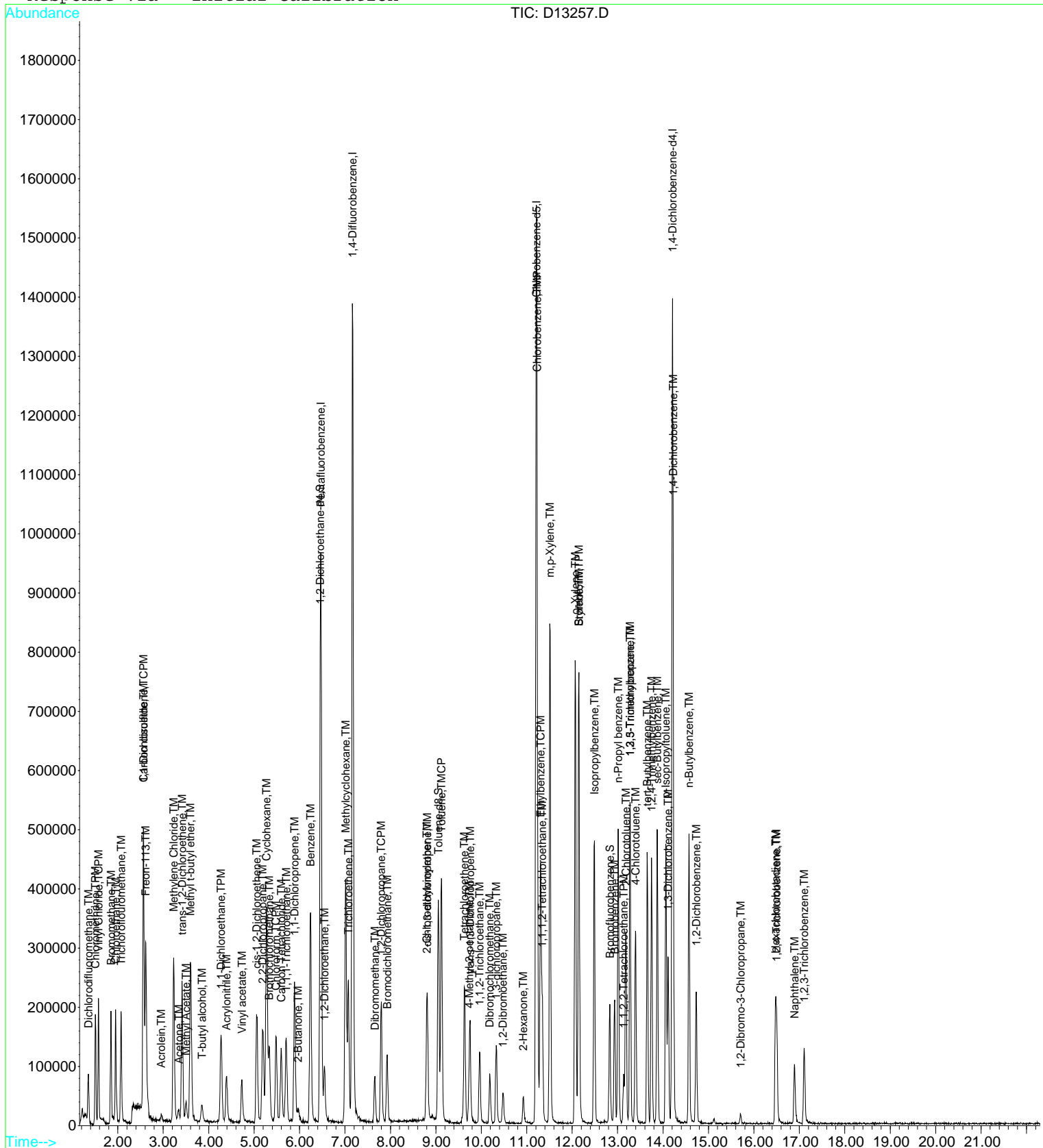
D13257.D VD8S1201.M Wed Jan 13 13:16:30 2016

Data File : D:\D\DATA15\DEC15\D1201\D13257.D  
Acq On : 1 Dec 2015 15:11  
Sample : S5L0109-CAL2  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 1 18:09 2015

Vial: 2  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



Data File : D:\D\DATA15\DEC15\D1201\D13258.D  
 Acq On : 1 Dec 2015 15:47  
 Sample : S5L0109-CAL3  
 Misc : SOIL

Vial: 3  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	721379	50.00	ug/l	-0.02
27) 1,4-Difluorobenzene	7.17	114	1264794	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	980805	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	427639	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.45	65	99226	20.48	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	40.96%#
41) Toluene-d8	9.05	98	521286	21.14	ug/l	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	42.28%#
47) Bromofluorobenzene	12.83	95	150514	20.58	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	41.16%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.95	56	14655	86.06	ug/l	77
3) Acrylonitrile	4.39	53	137563	111.37	ug/l	96
4) Acetone	3.33	43	39324	32.52	ug/l	81
5) Dichlorodifluoromethane	1.34	85	145804	50.83	ug/l	96
6) Chloromethane	1.50	50	337221	29.57	ug/l	97
7) Vinyl Chloride	1.57	62	346870	26.56	ug/l	97
8) Bromomethane	1.84	94	208156	23.48	ug/l	98
9) Chloroethane	1.94	64	305307	23.25	ug/l	100
10) Trichlorofluoromethane	2.06	101	260516	22.59	ug/l	99
11) Freon-113	2.61	101	233195	22.52	ug/l	97
12) 1,1-Dichloroethene	2.55	61	324597	21.30	ug/l	83
13) Carbon disulfide	2.56	76	497752	18.75	ug/l	91
14) Methyl Acetate	3.49	43	77120	21.81	ug/l	99
15) Methylene Chloride	3.23	49	314501	27.28	ug/l	87
16) trans-1,2-Dichloroethene	3.41	61	272826	21.98	ug/l	88
17) 1,1-Dichloroethane	4.27	63	352350	22.45	ug/l	99
18) Vinyl acetate	4.72	43	236772	22.14	ug/l	98
19) 2,2-Dichloropropane	5.19	77	220630	21.16	ug/l	94
20) 2-Butanone	5.96	43	46172	22.02	ug/l	84
21) cis-1,2-Dichloroethene	5.05	61	255224	22.74	ug/l	91
22) Chloroform	5.48	83	235590	21.83	ug/l	98
23) Bromochloromethane	5.33	130	85873	21.10	ug/l	97
24) Cyclohexane	5.26	56	421661	21.81	ug/l	90
25) 1,1,1-Trichloroethane	5.70	97	190091	22.77	ug/l	93
26) T-butyl alcohol	3.85	59	69346	222.30	ug/l	81
29) 1,1-Dichloropropene	5.88	110	84089	21.30	ug/l	97
30) Carbon Tetrachloride	5.59	117	160643	21.40	ug/l	99
31) 1,2-Dichloroethane	6.55	62	124118	22.44	ug/l	94
32) Benzene	6.23	78	669722	21.41	ug/l	96
33) Trichloroethene	7.08	95	149020	21.23	ug/l	94
34) Methylcyclohexane	7.02	83	325530	21.26	ug/l	88
35) 1,2-Dichloropropane	7.79	63	173269	21.45	ug/l	87
37) Bromodichloromethane	7.92	83	150339	22.98	ug/l	96
38) Dibromomethane	7.66	174	63507	21.78	ug/l	89
39) 2-Chloroethylvinylether	8.78	63	66495	20.93	ug/l	95
40) cis-1,3-dichloropropene	8.81	75	221124	22.04	ug/l	90
42) Toluene	9.12	91	641024	22.09	ug/l	94
43) trans-1,3-Dichloropropene	9.76	75	155711	21.43	ug/l	91
44) 1,1,2-Trichloroethane	9.97	97	87364	22.39	ug/l	94
45) 4-Methyl-2-pentanone	9.73	43	82848	20.41	ug/l	94
46) 1,2-Dibromoethane	10.47	107	83350	22.24	ug/l	91
49) 2-Hexanone	10.92	43	63485	21.83	ug/l	96
50) 1,3-dichloropropane	10.33	76	166397	21.51	ug/l	93
51) Tetrachloroethene	9.63	166	162129	21.32	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1201\D13258.D

Vial: 3

Acq On : 1 Dec 2015 15:47

Operator: SG

Sample : S5L0109-CAL3

Inst : GC/MS D

Misc : SOIL

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Tue Dec 01 14:59:37 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.19	129	96380	21.22	ug/l	84
53) Ethylbenzene	11.30	91	701645	22.68	ug/l	100
54) Chlorobenzene	11.23	112	396186	22.02	ug/l	98
55) 1,1,1,2-Tetrachloroethane	11.34	131	110876	21.38	ug/l	95
56) m,p-Xylene	11.51	91	1024532	45.77	ug/l	99
57) o-Xylene	12.07	91	993841	45.26	ug/l	98
58) Styrene	12.15	104	833544	45.31	ug/l	99
59) Bromoform	12.15	173	46840	22.24	ug/l	88
61) Isopropylbenzene	12.49	105	728224	22.14	ug/l	98
62) 1,1,2,2-Tetrachloroethane	13.13	83	94304	21.94	ug/l	97
63) 1,2,3-Trichloropropane	13.27	75	69890	21.66	ug/l	94
64) n-Propyl benzene	13.01	91	895187	22.73	ug/l	97
65) Bromobenzene	12.93	77	226680	22.08	ug/l	99
66) 1,3,5-Trimethylbenzene	13.28	105	531969	22.42	ug/l	98
67) 2-Chlorotoluene	13.18	91	441578	22.28	ug/l	96
68) 4-Chlorotoluene	13.40	91	448928	22.69	ug/l	88
69) tert-Butylbenzene	13.66	119	521006	22.36	ug/l	99
70) 1,2,4-Trimethylbenzene	13.75	105	527030	22.49	ug/l	99
71) sec-Butylbenzene	13.87	105	823183	23.21	ug/l	100
72) p-Isopropyltoluene	14.07	119	684274	23.03	ug/l	98
73) 1,3-Dichlorobenzene	14.11	146	291624	22.12	ug/l	100
74) 1,4-Dichlorobenzene	14.23	146	280786	21.93	ug/l	92
75) n-Butylbenzene	14.58	91	643853	23.30	ug/l	96
76) 1,2-Dichlorobenzene	14.73	146	247437	23.05	ug/l	92
77) 1,2-Dibromo-3-Chloropropan	15.71	157	12984	21.99	ug/l	89
78) 1,2,4-Trichlorobenzene	16.50	180	148671	24.23	ug/l	91
79) Hexachlorobutadiene	16.48	225	90661	26.33	ug/l	98
80) Naphthalene	16.89	128	260486	24.45	ug/l	98
81) 1,2,3-Trichlorobenzene	17.11	180	122467	25.98	ug/l	94
82) Methyl t-butyl ether	3.59	73	531097	40.23	ug/l	94

(#) = qualifier out of range (m) = manual integration

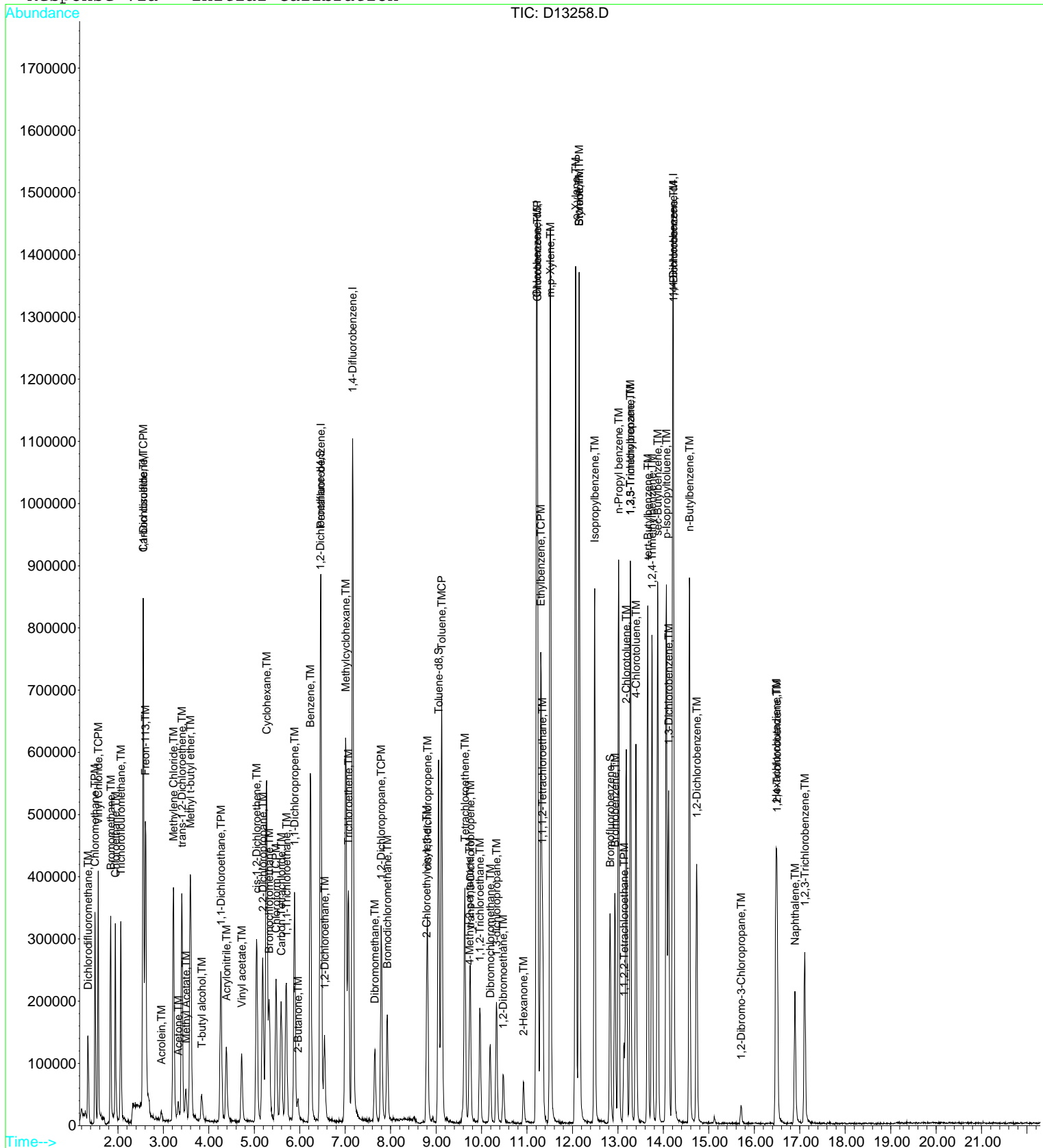
D13258.D VD8S1201.M Wed Jan 13 13:16:34 2016

Data File : D:\D\DATA15\DEC15\D1201\D13258.D  
Acq On : 1 Dec 2015 15:47  
Sample : S5L0109-CAL3  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 1 18:06 2015

Vial: 3  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



Data File : D:\D\DATA15\DEC15\D1201\D13259.D  
 Acq On : 1 Dec 2015 16:17  
 Sample : S5L0109-CAL4  
 Misc : SOIL

Vial: 4  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	878719	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1550625	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.21	117	1202204	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	517816	50.00	ug/l	-0.01

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.46	65	294751	49.61	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.22%
41) Toluene-d8	9.06	98	1523633	50.39	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.78%
47) Bromofluorobenzene	12.83	95	446943	49.85	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.70%

Target Compounds

						Qvalue
2) Acrolein	2.97	56	44003	204.19	ug/l	93
3) Acrylonitrile	4.39	53	406122	269.93	ug/l	99
4) Acetone	3.34	43	104756	71.10	ug/l	86
5) Dichlorodifluoromethane	1.35	85	410086	97.68	ug/l	97
6) Chloromethane	1.51	50	935453	67.33	ug/l	97
7) Vinyl Chloride	1.57	62	978233	61.48	ug/l	96
8) Bromomethane	1.85	94	645025	59.74	ug/l	97
9) Chloroethane	1.95	64	892594	55.81	ug/l	97
10) Trichlorofluoromethane	2.06	101	786846	56.02	ug/l	95
11) Freon-113	2.62	101	658745	52.22	ug/l	99
12) 1,1-Dichloroethene	2.56	61	911967	49.13	ug/l	89
13) Carbon disulfide	2.56	76	1452005	44.90	ug/l	96
14) Methyl Acetate	3.51	43	215030	49.92	ug/l	99
15) Methylene Chloride	3.23	49	783453	58.83	ug/l	91
16) trans-1,2-Dichloroethene	3.42	61	794045	52.53	ug/l	87
17) 1,1-Dichloroethane	4.28	63	1026192	53.67	ug/l	97
18) Vinyl acetate	4.74	43	712318	54.67	ug/l	94
19) 2,2-Dichloropropane	5.20	77	661030	52.06	ug/l	94
20) 2-Butanone	5.96	43	146521	57.36	ug/l	97
21) cis-1,2-Dichloroethene	5.06	61	751325	54.97	ug/l	87
22) Chloroform	5.49	83	712699	54.21	ug/l	98
23) Bromochloromethane	5.34	130	251619	50.76	ug/l	95
24) Cyclohexane	5.28	56	1212155	51.48	ug/l	89
25) 1,1,1-Trichloroethane	5.71	97	546891	53.79	ug/l	92
26) T-butyl alcohol	3.87	59	215297	566.59	ug/l	91
29) 1,1-Dichloropropene	5.90	110	258524	53.41	ug/l	97
30) Carbon Tetrachloride	5.60	117	473453	51.44	ug/l	91
31) 1,2-Dichloroethane	6.55	62	359478	53.01	ug/l	86
32) Benzene	6.25	78	1960260	51.10	ug/l	95
33) Trichloroethene	7.08	95	450529	52.35	ug/l	98
34) Methylcyclohexane	7.02	83	953113	50.78	ug/l	90
35) 1,2-Dichloropropane	7.80	63	527010	53.22	ug/l	91
37) Bromodichloromethane	7.93	83	449433	56.04	ug/l	98
38) Dibromomethane	7.66	174	187351	52.41	ug/l	98
39) 2-Chloroethylvinylether	8.80	63	206620	53.04	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	663141	53.92	ug/l	98
42) Toluene	9.13	91	1873729	52.68	ug/l	95
43) trans-1,3-Dichloropropene	9.76	75	483222	54.25	ug/l	96
44) 1,1,2-Trichloroethane	9.96	97	259283	54.19	ug/l	96
45) 4-Methyl-2-pentanone	9.73	43	261618	52.57	ug/l	98
46) 1,2-Dibromoethane	10.48	107	260913	56.78	ug/l	95
49) 2-Hexanone	10.93	43	200269	56.17	ug/l	91
50) 1,3-dichloropropane	10.33	76	505172	53.27	ug/l	99
51) Tetrachloroethene	9.64	166	475123	50.97	ug/l	94

(#) = qualifier out of range (m) = manual integration



Data File : D:\D\DATA15\DEC15\D1201\D13259.D  
 Acq On : 1 Dec 2015 16:17  
 Sample : S5L0109-CAL4  
 Misc : SOIL

Vial: 4  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
 Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

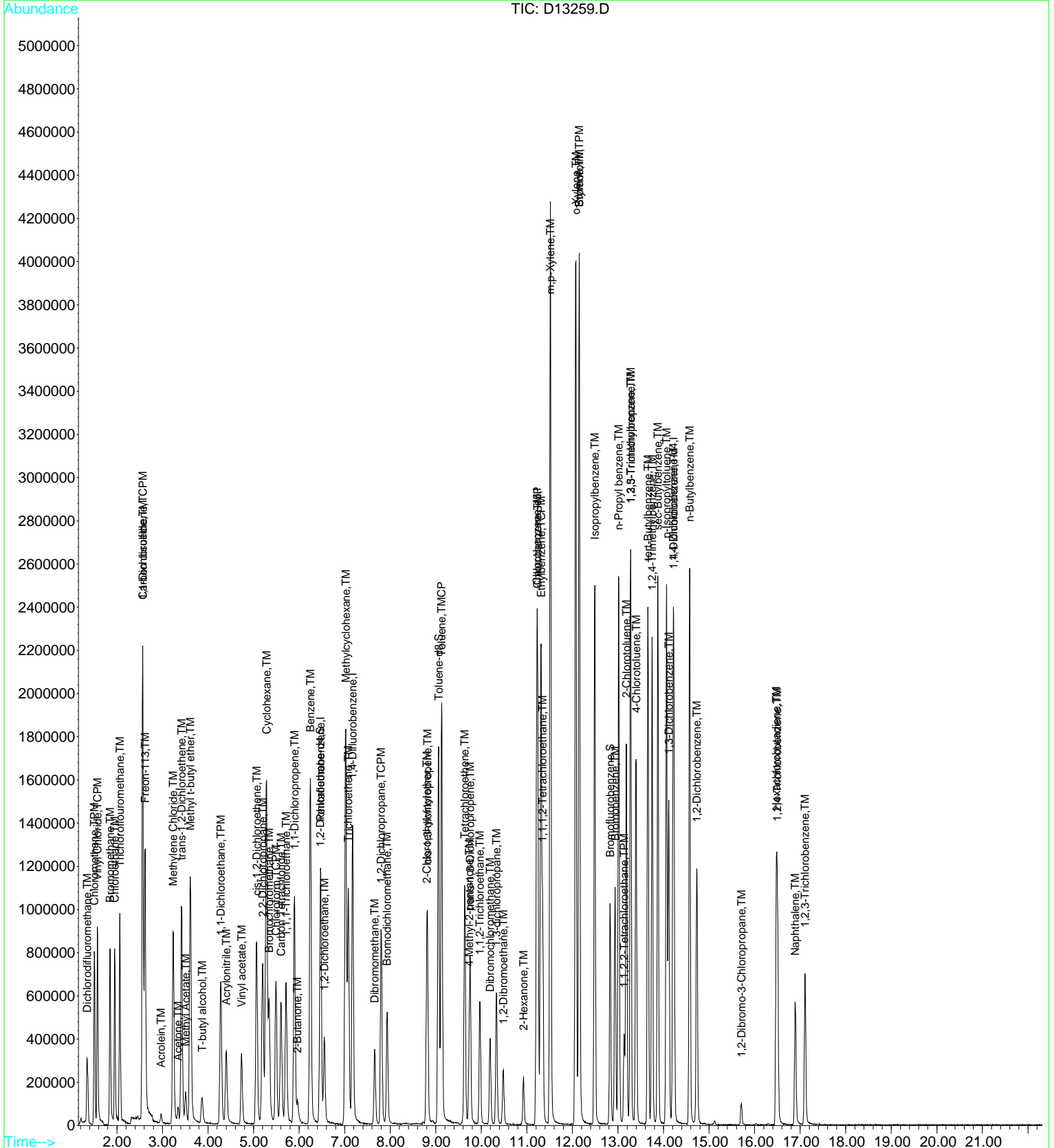
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.19	129	300274	53.93	ug/l	88
53) Ethylbenzene	11.31	91	2046833	53.98	ug/l	100
54) Chlorobenzene	11.24	112	1220841	55.36	ug/l	99
55) 1,1,1,2-Tetrachloroethane	11.35	131	344472	54.20	ug/l	96
56) m,p-Xylene	11.52	91	2943096	107.28	ug/l	99
57) o-Xylene	12.08	91	2863156	106.38	ug/l	99
58) Styrene	12.15	104	2520047	111.76	ug/l	99
59) Bromoform	12.15	173	143028	55.41	ug/l	81
61) Isopropylbenzene	12.49	105	2136651	53.66	ug/l	99
62) 1,1,2,2-Tetrachloroethane	13.13	83	283421	54.46	ug/l	99
63) 1,2,3-Trichloropropane	13.27	75	209280	53.57	ug/l	98
64) n-Propyl benzene	13.01	91	2546625	53.41	ug/l	95
65) Bromobenzene	12.94	77	649131	52.22	ug/l	95
66) 1,3,5-Trimethylbenzene	13.28	105	1575365	54.82	ug/l	98
67) 2-Chlorotoluene	13.18	91	1261089	52.56	ug/l	92
68) 4-Chlorotoluene	13.40	91	1292299	53.94	ug/l	88
69) tert-Butylbenzene	13.66	119	1490437	52.82	ug/l	97
70) 1,2,4-Trimethylbenzene	13.75	105	1531181	53.96	ug/l	98
71) sec-Butylbenzene	13.87	105	2351873	54.76	ug/l	98
72) p-Isopropyltoluene	14.07	119	1943801	54.04	ug/l	99
73) 1,3-Dichlorobenzene	14.11	146	847617	53.09	ug/l	100
74) 1,4-Dichlorobenzene	14.23	146	821034	52.97	ug/l	95
75) n-Butylbenzene	14.57	91	1812174	54.17	ug/l	98
76) 1,2-Dichlorobenzene	14.73	146	697522	53.67	ug/l	98
77) 1,2-Dibromo-3-Chloropropan	15.71	157	41146	52.64	ug/l	97
78) 1,2,4-Trichlorobenzene	16.50	180	410371	55.23	ug/l	96
79) Hexachlorobutadiene	16.47	225	243898	58.50	ug/l	99
80) Naphthalene	16.89	128	708506	54.91	ug/l	99
81) 1,2,3-Trichlorobenzene	17.10	180	329206	57.68	ug/l	100
82) Methyl t-butyl ether	3.61	73	1578350	98.74	ug/l	96

Data File : D:\D\DATA15\DEC15\D1201\D13259.D  
Acq On : 1 Dec 2015 16:17  
Sample : S5L0109-CAL4  
Misc : SOIL  
MS Integration Params: RTEINT.P  
Quant Time: Dec 1 18:06 2015

Vial: 4  
Operator: SG  
Inst : GC/MS D  
Multiplr: 1.00

Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)  
Title : VOA 8260 SOIL TCL METHOD  
Last Update : Mon Dec 07 10:21:05 2015  
Response via : Initial Calibration



Data File : D:\D\DATA15\DEC15\D1201\D13260.D  
 Acq On : 1 Dec 2015 17:09  
 Sample : S5L0109-CAL5  
 Misc : SOIL

Vial: 5  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD  
 Last Update : Tue Dec 01 14:59:37 2015  
 Response via : Initial Calibration  
 DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	791437	50.00	ug/l	-0.02
27) 1,4-Difluorobenzene	7.16	114	1387995	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1066793	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	458926	50.00	ug/l	0.00

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.44	65	543782	102.26	ug/l	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	204.52%#
41) Toluene-d8	9.05	98	2786461	102.96	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	205.92%#
47) Bromofluorobenzene	12.83	95	822569	102.49	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	204.98%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.94	56	86274	438.12	ug/l	93
3) Acrylonitrile	4.38	53	775211	572.07	ug/l	98
4) Acetone	3.31	43	196433	148.03	ug/l	95
5) Dichlorodifluoromethane	1.34	85	902077	176.10	ug/l	100
6) Chloromethane	1.49	50	1827765	146.06	ug/l	100
7) Vinyl Chloride	1.56	62	1895358	132.27	ug/l	99
8) Bromomethane	1.83	94	1218264	125.27	ug/l	100
9) Chloroethane	1.93	64	1631870	113.29	ug/l	99
10) Trichlorofluoromethane	2.05	101	1431593	113.17	ug/l	92
11) Freon-113	2.60	101	1196065	105.27	ug/l	97
12) 1,1-Dichloroethene	2.54	61	1651462	98.77	ug/l	92
13) Carbon disulfide	2.55	76	2623642	90.09	ug/l	99
14) Methyl Acetate	3.48	43	390520	100.66	ug/l	99
15) Methylene Chloride	3.21	49	1390723	118.78	ug/l	91
16) trans-1,2-Dichloroethene	3.40	61	1456002	106.94	ug/l	91
17) 1,1-Dichloroethane	4.26	63	1861602	108.10	ug/l	100
18) Vinyl acetate	4.72	43	1332543	113.55	ug/l	100
19) 2,2-Dichloropropane	5.18	77	1216802	106.39	ug/l	97
20) 2-Butanone	5.94	43	275265	119.64	ug/l	89
21) cis-1,2-Dichloroethene	5.05	61	1369471	111.24	ug/l	89
22) Chloroform	5.47	83	1285604	108.57	ug/l	98
23) Bromochloromethane	5.32	130	471487	105.61	ug/l	98
24) Cyclohexane	5.26	56	2193172	103.41	ug/l	90
25) 1,1,1-Trichloroethane	5.70	97	995474	108.71	ug/l	89
26) T-butyl alcohol	3.84	59	402285	1175.43	ug/l	96
29) 1,1-Dichloropropene	5.88	110	471389	108.79	ug/l	99
30) Carbon Tetrachloride	5.59	117	856614	103.98	ug/l	95
31) 1,2-Dichloroethane	6.54	62	671819	110.68	ug/l	90
32) Benzene	6.23	78	3591149	104.59	ug/l	95
33) Trichloroethene	7.07	95	828897	107.59	ug/l	94
34) Methylcyclohexane	7.01	83	1738214	103.46	ug/l	93
35) 1,2-Dichloropropane	7.79	63	969662	109.39	ug/l	95
37) Bromodichloromethane	7.92	83	840629	117.11	ug/l	99
38) Dibromomethane	7.65	174	334145	104.43	ug/l	95
39) 2-Chloroethylvinylether	8.79	63	391120	112.16	ug/l	96
40) cis-1,3-dichloropropene	8.81	75	1224283	111.21	ug/l	94
42) Toluene	9.12	91	3369740	105.83	ug/l	98
43) trans-1,3-Dichloropropene	9.75	75	898114	112.65	ug/l	99
44) 1,1,2-Trichloroethane	9.96	97	472189	110.25	ug/l	96
45) 4-Methyl-2-pentanone	9.72	43	471176	105.78	ug/l	98
46) 1,2-Dibromoethane	10.48	107	469918	114.25	ug/l	96
49) 2-Hexanone	10.92	43	375622	118.73	ug/l	90
50) 1,3-dichloropropane	10.33	76	903992	107.43	ug/l	99
51) Tetrachloroethene	9.63	166	872277	105.45	ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\D\DATA15\DEC15\D1201\D13260.D  
 Acq On : 1 Dec 2015 17:09  
 Sample : S5L0109-CAL5  
 Misc : SOIL

Vial: 5  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Tue Dec 01 14:59:37 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Dibromochloromethane	10.18	129	563670	114.09	ug/l	94
53) Ethylbenzene	11.31	91	3682672	109.44	ug/l	98
54) Chlorobenzene	11.24	112	2173237	111.05	ug/l	99
55) 1,1,1,2-Tetrachloroethane	11.35	131	633067	112.26	ug/l	92
56) m,p-Xylene	11.51	91	5292596	217.41	ug/l	96
57) o-Xylene	12.07	91	5112833	214.08	ug/l	98
58) Styrene	12.15	104	4530815	226.43	ug/l	99
59) Bromoform	12.15	173	273141	119.25	ug/l	78
61) Isopropylbenzene	12.49	105	3798948	107.64	ug/l	97
62) 1,1,2,2-Tetrachloroethane	13.13	83	500261	108.46	ug/l	97
63) 1,2,3-Trichloropropane	13.28	75	379393	109.58	ug/l	100
64) n-Propyl benzene	13.02	91	4557086	107.84	ug/l	94
65) Bromobenzene	12.93	77	1206277	109.49	ug/l	99
66) 1,3,5-Trimethylbenzene	13.28	105	2804068	110.11	ug/l	97
67) 2-Chlorotoluene	13.19	91	2283732	107.39	ug/l	89
68) 4-Chlorotoluene	13.40	91	2317270	109.12	ug/l	92
69) tert-Butylbenzene	13.66	119	2728321	109.10	ug/l	96
70) 1,2,4-Trimethylbenzene	13.75	105	2745224	109.17	ug/l	96
71) sec-Butylbenzene	13.88	105	4270272	112.19	ug/l	98
72) p-Isopropyltoluene	14.07	119	3537504	110.96	ug/l	99
73) 1,3-Dichlorobenzene	14.11	146	1532922	108.33	ug/l	100
74) 1,4-Dichlorobenzene	14.23	146	1499981	109.18	ug/l	97
75) n-Butylbenzene	14.58	91	3293090	111.06	ug/l	98
76) 1,2-Dichlorobenzene	14.73	146	1280416	111.16	ug/l	99
77) 1,2-Dibromo-3-Chloropropan	15.71	157	81722	114.19	ug/l	87
78) 1,2,4-Trichlorobenzene	16.51	180	788836	119.78	ug/l	98
79) Hexachlorobutadiene	16.48	225	464647	125.76	ug/l	98
80) Naphthalene	16.89	128	1373168	120.08	ug/l	98
81) 1,2,3-Trichlorobenzene	17.11	180	628920	124.34	ug/l	98
82) Methyl t-butyl ether	3.59	73	2845631	200.87	ug/l	97

(#) = qualifier out of range (m) = manual integration

D13260.D VD8S1201.M Wed Jan 13 13:16:41 2016



Data File : D:\D\DATA15\DEC15\D1201\D13261.D  
 Acq On : 1 Dec 2015 17:39  
 Sample : S5L0109-CAL6  
 Misc : SOIL

Vial: 6  
 Operator: SG  
 Inst : GC/MS D  
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 1 18:06 2015

Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)

Title : VOA 8260 SOIL TCL METHOD

Last Update : Tue Dec 01 14:59:37 2015

Response via : Initial Calibration

DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	946130	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.18	114	1681702	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.22	117	1362683	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	573146	50.00	ug/l	0.00

System Monitoring Compounds

28) 1,2-Dichloroethane-d4	6.46	65	1210589	187.89	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	375.78%#
41) Toluene-d8	9.07	98	6180378	188.48	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	376.96%#
47) Bromofluorobenzene	12.83	95	1869077	192.21	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	384.42%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acrolein	2.97	56	183530	775.39	ug/l	88
3) Acrylonitrile	4.40	53	1657305	1023.04	ug/l	96
4) Acetone	3.34	43	425677	268.32	ug/l	94
5) Dichlorodifluoromethane	1.35	85	2121637	264.37	ug/l	100
6) Chloromethane	1.51	50	4352192	290.93	ug/l	95
7) Vinyl Chloride	1.57	62	4579440	267.32	ug/l	94
8) Bromomethane	1.85	94	2792686	240.22	ug/l	99
9) Chloroethane	1.96	64	3588543	208.40	ug/l	99
10) Trichlorofluoromethane	2.07	101	3189176	210.89	ug/l	93
11) Freon-113	2.62	101	2606256	191.88	ug/l	98
12) 1,1-Dichloroethene	2.56	61	3542119	177.21	ug/l	94
13) Carbon disulfide	2.57	76	5619305	161.40	ug/l	97
14) Methyl Acetate	3.51	43	849360	183.14	ug/l	96
15) Methylene Chloride	3.24	49	2918416	210.70	ug/l	96
16) trans-1,2-Dichloroethene	3.42	61	3239721	199.05	ug/l	92
17) 1,1-Dichloroethane	4.28	63	4087907	198.57	ug/l	99
18) Vinyl acetate	4.74	43	2951233	210.37	ug/l	99
19) 2,2-Dichloropropane	5.20	77	2720314	198.97	ug/l	96
20) 2-Butanone	5.96	43	600580	218.35	ug/l	89
21) cis-1,2-Dichloroethene	5.07	61	2987105	202.96	ug/l	91
22) Chloroform	5.49	83	2907608	205.40	ug/l	98
23) Bromochloromethane	5.35	130	1053681	197.42	ug/l	96
24) Cyclohexane	5.29	56	4762747	187.85	ug/l	93
25) 1,1,1-Trichloroethane	5.72	97	2234935	204.15	ug/l	89
26) T-butyl alcohol	3.86	59	883207	2158.70	ug/l	94
29) 1,1-Dichloropropene	5.90	110	1052886	200.56	ug/l	99
30) Carbon Tetrachloride	5.61	117	1926991	193.05	ug/l	95
31) 1,2-Dichloroethane	6.55	62	1482174	201.54	ug/l	91
32) Benzene	6.25	78	7852846	188.77	ug/l	92
33) Trichloroethene	7.08	95	1873491	200.71	ug/l	94
34) Methylcyclohexane	7.03	83	3846930	188.98	ug/l	93
35) 1,2-Dichloropropane	7.80	63	2186243	203.56	ug/l	94
37) Bromodichloromethane	7.94	83	1952288	224.47	ug/l	98
38) Dibromomethane	7.66	174	773598	199.55	ug/l	97
39) 2-Chloroethylvinylether	8.80	63	894802	211.78	ug/l	99
40) cis-1,3-dichloropropene	8.82	75	2773021	207.89	ug/l	98
42) Toluene	9.13	91	7495678	194.30	ug/l	98
43) trans-1,3-Dichloropropene	9.76	75	2063366	213.61	ug/l	99
44) 1,1,2-Trichloroethane	9.97	97	1091477	210.34	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	1082726	200.63	ug/l	96
46) 1,2-Dibromoethane	10.48	107	1089621	218.65	ug/l	97
49) 2-Hexanone	10.93	43	869977	215.27	ug/l	93
50) 1,3-dichloropropane	10.34	76	2072550	192.83	ug/l	99
51) Tetrachloroethene	9.64	166	2003458	189.61	ug/l	96

(#) = qualifier out of range (m) = manual integration